# CHEMIST AND DRUGGIST

for RETAILER — WHOLESALER — MANUFACTURER

JULY 5, 1952

Uright's

PACKED PHARMACEUTICALS

PREPARATIONS

TOILET PREPARATIONS

DISINFECTANTS

### FOR SUMMER SALES

"A reputation that is sound and enduring is more valuable than a passing success however spectacular and it cannot be built up in a day."

Such is WRIGHT'S guiding principle and for 80 years a policy of supplying only the finest pharmaceutical preparations at reasonable prices has been consistently maintained.

WRIGHT'S WRIGHT'S

Calamine Lotion Insect Repellent Lavender Oil

WRIGHT'S WRIGHT'S WRIGHT'S

WRIGHT'S

WRIGHT'S

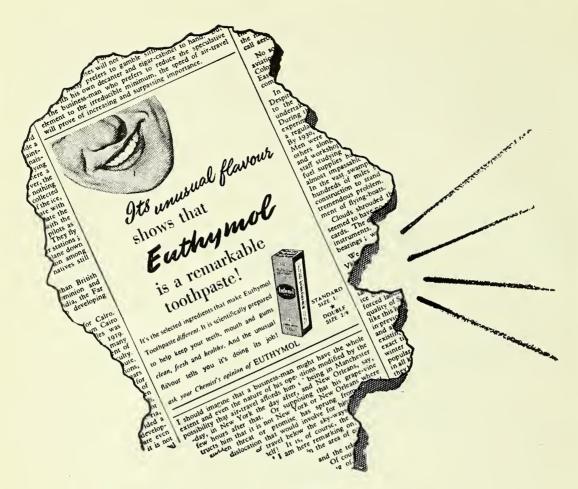
Optical Lotion Effervescing Saline

Sunburn Lotion
Suntan Oil
Sun Letion

Lysol
Disinfecting Fluid
D.D.T. Spray
D.D.T. Powder in
Puffer Tin
Ant Killer

THE NAME ALONE IS A GUARANTEE WRIGHTS

WRIGHT LAYMAN & UMNEY LTD
SOUTHWARK STREET, LONDON, S.E.I HOP 40RI (10 lines



# We're telling more people about Euthymol

— advertising on a larger scale than ever before; telling more people, in every walk of life, to consult their Chemists about toothpaste. You know the value of Euthymol. By displaying and recommending it you can win many new, regular customers.



PARKE, DAVIS & COMPANY LIMITED Hounslow, Middlesex Inc. U.S.A.



# CHEMIST FINDS NEW WAY TO HELP COUNTERACT DROP IN SALE OF

### LUXURIES

Just now, when more and more chemists are experiencing a fall in demand for certain luxury products, this experience of a chemist in Liverpool is especially

interesting.

"For some time" he writes, "I had been wondering how to make up for the drop in demand for luxury goods. Then, one evening at home, last summer, I happened to notice a tin of Sanilav perfumed lavatory cleaner, and the idea flashed through my mind 'how would it go in the shop?"

"Here was a particularly attractive pack; a product closely linked with hygiene, so very suitable for a chemist; and—since it was made by the Ibcol people—I knew from experience that the quality was

bound to be good.

"Anyway, I decided to try out a dozen tins in the shop. If they did not sell, there would be no harm done, we could quite easily use them up in the home.

### Surprised by demand

"On delivery, I put a few tins on display on the counter, and to my surprise they started selling right away and in 3 or 4 days I found I had sold out. Since then Sanilav has settled down to a regular sale of between 2 to 3 dozen tins a month. It was certainly an experiment well worth trying, and I feel fairly convinced that Sanilav would enjoy a worthwhile sale in any chemist's shop."

Sanilav is the most efficient of all



Sanilav, the new "sprinkle" lavatory cleaner with the fragrant perfume, has a really attractive pack, which makes it ideal for display in a chemist's shop.



Women of all social classes are increasingly particular about keeping their homes, hygienically fresh and fragrant—hence the rapidly growing demand for Sanilav, the perfumed lavatory cleaner.

lavatory cleaners, because it does four jobs in one. (1) Keeps the lavatory bowl and bend sparkling white right through. (2) Kills dangerous germs with its powerful disinfectant action. (3) Destroys unpleasant smells. (4) Leaves the air beautifully fresh and fragrant. All that's required with Sanilav is to sprinkle overnight and flush next morning.

IF	YOUR	WHO	LESAL	ER	CAN'T	SUPPLY
	YC	U, PO	ST TH	IIS C	COUPO	N

We would like your representative to call

Name.....

Address.....

Post in unsealed  $l\frac{1}{2}d$ . stamped envelope to Ibco Products Ltd., River Road, Barking, Essex.

### SUMNER'S

Liverpool and Cardiff

for



Prompt Service and Personal Attention



DRUGS

CALENICALS

PROPRIETARIES



### R. SUMNER & CO. LTD

Manufacturing Chemists

HANOVER ST., LIVERPOOL, 1

Phone: Royal 6644

& 1 FITZALAN RD., CARDIFF

Phone: 3147

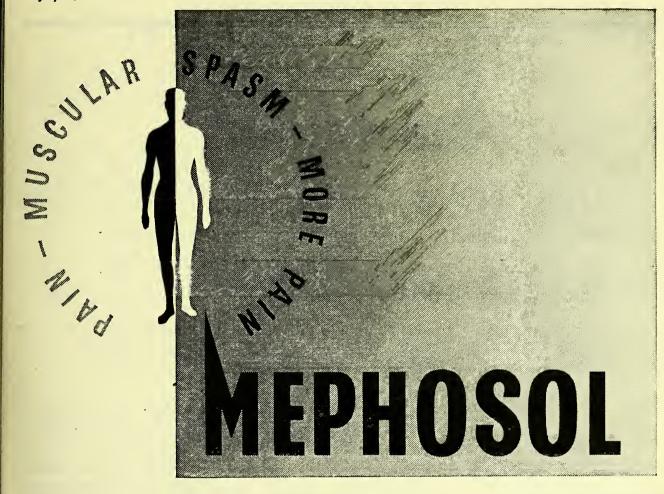
# At last / a travel sickness remedy for children

- ★ Containing no scheduled poisons; adequate dosage may be administered without uneasiness.
- \*A liquid preparation convenient and easy to take at all times.
- \* It's bound to be in steady demand throughout the year.
- \* Backed by a name the public trusts.





JOHN BELL, HILLS & LUCAS LTD., Oxford Works, Worsley Bridge Road, London, S.E.26



In rheumatic disorders the commonest symptom, and the most trying to the patient, is pain. Following the pain comes muscle spasm, which leads to disability, loss of function—then more pain, more spasm. MEPHOSOL (containing mephenesin) breaks this vicious circle by the direct abolition of skeletal muscle pain. It is analgesic and antispasmodic.

Packings and Prices:

25 tablets 5|- (Plus 1|1 P.T.)

100 tablets 18|- (Plus 4|- P.T.)

CROOKES MEPHOSOL TRADE MARK









### ROTER TABLETS & ROTERCHOLON

We are pleased to announce that limited supplies of all sizes are expected to be available from about the middle of July.

Pharmacists are kindly requested to send in their orders through their usual wholesale channels.

### F.A.I.R. LABORATORIES LTD

179 HEATH ROAD, TWICKENHAM, MIDDLESEX

# Is Chlorophyll on your research programme?

chlorophyll may not be "Green Gold", but executives responsible for research should be conscious of the many potential uses.

A vast amount of scattered research has been carried out in connection with the position of CHLOROPHYLL in medicine. As far back as 1851 Verdeil (a) noted the connection between CHLOROPHYLL and Hæmoglobins. After the first world war Burgi (b) demonstrated its properties in the stimulation of tissues; and in the United States work has been done to demonstrate the effectiveness of CHLOROPHYLL in ointment for healing wounds. Westcott (c) discovered the deodorising properties of chlo-

rophyllins taken internally and his conclusions were borne out by Dijkstra (d) in Holland. In the dental

field CHLOROPHYLL has been incorporated in oral cleansing preparations and shown to be efficacious in inhibiting dental diseases.

These facts will indicate many possible lines of research and we would be pleased to supply samples of any of our products for this purpose, and to put your chemists in touch with available references.

### REFERENCES:

(a) F. VERDEIL, Compt. rend, 1851. 33, 689.

(b) E. BURGI, Das Chlorophyll als Pharmakon. Leipzig 1932.

(c) F. H. WESTCOTT, N.Y. State J. Med. 1950.50. 689. (d) B. K. S. DIJKSTRA, Deodorising effects of Chlorophyll.

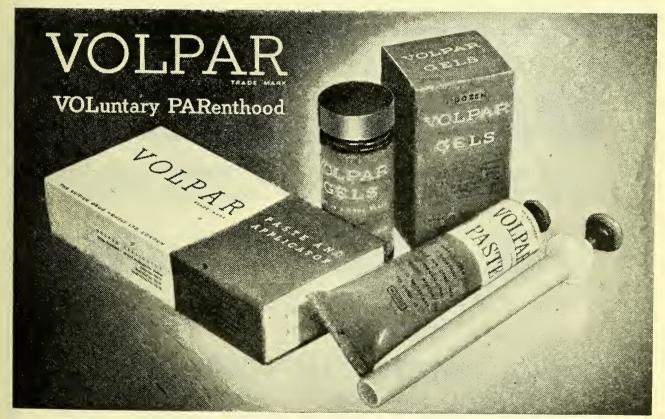
Available in Oil Soluble paste, suitable for colouring soaps, etc. Also in Water Soluble pastes and powders. Purities assayed by the Spectrophotometric method evolved by the British Chlorophyll Company. Full details available on request.



FREDK. BOEHM LIMITED · 19 BENTINCK STREET, LONDON, W1 · TELEPHONE WELBECK 7933

### INDEX TO ADVERTISERS

Acme Vacuum Flask Co.7Allans (Paper & Plastics), Ltd.xivAmber Pharmaceuticals, Ltd.xixAshe Laboratories, Ltd.21Ayrton, Saunders & Co., Ltd.10	Dunlop Rubber Co., Ltd. xv Dunn Brothers Succrs., Ltd. ii  Eade's Pills, Ltd. xx Edme, Ltd. xxv
"Belfast Telegraph" xviii Bell, John, Hills & Lucas, Ltd. 2 Bio-Colloids, Ltd. xx Boehm, Fredk., & Co., Ltd. 4 British Drug Houses, Ltd., The 5 Brontan 15 Brumleu, J. Leader Page Burroughs Wellcome & Co. 25	F.A.I.R. Laboratories, Ltd. 4 Fallowfield, J., Ltd. 14 Ferris & Co., Ltd. 8 Franco-British Glass Co., Ltd. xiv Franks, A., & Bartlett Co., Ltd. ix, 15 Freeman, William & Co., Ltd. 23 Freudentheil, Smith & Co. Leader Page
Cellucotton Products (Kleenex), Ltd. iv Ciba Laboratories, Ltd. 26 Coates & Cooper, Ltd. iii Continental Laboratories, Ltd. xxv Cooper Laboratory, Ltd. xxiii Cox, Arthur H., & Co., Ltd. Cover iv Cresswell Bros. Sponges 12 Crookes Laboratories, Ltd. 3 Cussons, Sons & Co., Ltd. Cover iii	Gledhill, G. H., & Sons, Ltd. xvi Golden (Coloral), Ltd. 24 Gosheron, John, & Co., Ltd. 10 Goya (Men's Division) 20  Halewood Chemicals, Ltd. iii Hardy, M. W., & Co., Ltd. y
Cuticura Preparations xxii  Daniel, Richard, & Son, Ltd. 13 Davis, George & Co. (Manchester), Ltd. 7 Dearborn (1923), Ltd. xix Distillers Co., Ltd. iii Duncan, Flockhart & Co., Ltd. xvi	Harley, T., Ltd. xviii Harringtons Leader Page Haywood, J. H., Ltd. xii Hewlett, C. J., & Son, Ltd. xxiii Howard, Lloyd & Co., Ltd. 18, 19  (continued overleaf)



Volpar Gels Bottle of one doz; Pharmacists 1/8 Retail 2/6 ★ Volpar Paste Collapsible tube; Pharmacists 1/8 Retail 2/6 Volpar Paste and Applicator; Pharmacists 4/- Retail 6/-

BRITISH DRUG HOUSES LTD. LONDON N.I THE

INDEX (cont.)	Potter & Clarke, Ltd. 22 Prince Regent Tar Co., Ltd. 6
Ibco Products, Ltd. 1 Ingram, J., G., & Co., Ltd. 11 Impact Extrusions, Ltd. xiv Imperial Chemical Industries, Ltd. 9 International Bottle Co., Ltd., The xvii International Chemical Co., Ltd. 17	Radiol Chemicals, Ltd. 12 Ransom, Wm., & Son, Ltd. vii Rentokil, Ltd. 14 Riddell Products, Ltd. xiii
Jarvie, H., & Co., Ltd. xiii  Jeffreys, Miller & Co., Ltd. iii  Kearsley, C. & G., Ltd. xx  Kellys, John (London), Ltd. ii  Kemball, Bishop & Co., Ltd. viii  Lipton's Chemical Co., Ltd. xxii	School of Surgical Chiropody xii Seneschal Mftg. Co. xx Sessions, Wm., Ltd. Leader Page Shadeine Co. xvi Smith & Hill (Chemists), Ltd. 12 Sorex (London), Ltd. xxi Standard Synthetics, Ltd. ii Stewart, Goodall & Dunlop, Ltd. xii
Luminos, Ltd	Sumner, R., & Co., Ltd.       2         Thornton & Ross, Ltd.       8         Trapow, D., Ltd.       xiv
Murray S., & Co., Ltd	Vacco, Ltd
Odedent Co., The Leader Page Orridge & Co. Col. Supp.  Parke, Davis & Co. Cover ii Peboc, Ltd. ii Pharmax, Ltd. 10	Wallis Laboratories, Ltd. Leader Page Ward, Blenkinsop & Co., Ltd. i Wesley, Harold, Ltd. xx Wilcox. Jozeau & Co., Ltd. Leader Page Wood Bros. Glass Co., Ltd. x Woodward, G. O., & Co., Ltd. Leader Page Wright, Layman & Umney, Ltd. Front Cover

FOR BULK SUPPLIES OF

# Disinfectants

BLACK AND WHITE FLUIDS APPROVED FOR USE UNDER THE DISEASES of ANIMALS ACT, ETC.

### & Pine Fluids

DISINFECTANTS AND DEODORANTS—ALL TYPES PACKED IN 1, 5, 10 and 40 gallon drums.

### PRINCE REGENT TAR COMPANY LTD.

(Managers: BURT, BOULTON & HAYWOOD LTD)

BRETTENHAM HOUSE, LANCASTER PLACE, LONDON, W.C.2
Telephone: Temple Bar 5801 (8 lines)
Telegrams: "Burboul, Rand, London"



### New "ACME" Products you should not fail to stock

I Pt. MODEL

With bell-shaped cup RETAIL PRICE 4s. 6d.

> With large cup as illustrated

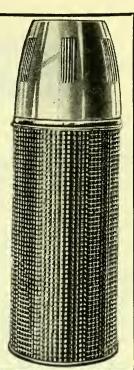
RETAIL PRICE 4s. 11d.

Made of corrugated rust resisting tinplate, assorted in a variety of colours with aluminium shoulder.

> PROMPT DELIVERY

### RETAIL PRICE 5s 11d.

Made of strong aluminium with scintillating crossgrained finish, translucently lacquered to prevent tarnish. Mirror polished aluminium shoulder, composition topped cork. Extra large Polystyrene cup with grip ridges in a variety of colours.



### E VACUUM FLASK Cº WORKS, BRIDGEND, GLAM.

LONDON ADDRESS:—BALFOUR HOUSE, 119-125 FINSBURY PAVEMENT, E.C.2

MANUFACTURER'S CLEARING STOCK

### MEN'S LONG WHITE COATS

Made of DRILL 3 for £3

Rigmel Fully Shrunk

Postage 1/6 extra.

No less quantity sold

SIZES 34" to 44".

(State Chest Measurement)

THESE QUALITY COATS CANNOT BE REPEATED WHEN CLEARED. C.O.D. 1/2 extra

GEORGE DAVIS & CO. (Manchester) BRADSHAW STREET, MANCHESTER,



Spray your own pharmacy with ZOFLORA. Your customers will appreciate the fresh, fragrant atmosphere and will wish to try it at home.

IT'S SO EASY TO CREATE

Zoflora Perfumed DISINFECTANT

From 2/6 per bottle.

Complete Spraying Outfit 12/6 & 30/-

THERNTON & ROSS

LIMITED

LINTHWAITE LABORATORIES

ENGLAND

### VREDE BOX CAMERAS



Delayed Action Model:

Model:

Standard Model:

52/6

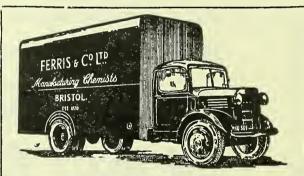
Both prices include tax.

Smart Case: 9/9

These clever little cameras, with features not normally found in cameras of this price, are exceedingly good value and will sell readily to your snap-shotter customers. They are attractively finished in black, red and dark green. Leaflet giving further details on request.

### LUMINOS LTD

451 Belsize Lane, Hampstead, London, N.W.3
Telephone: PRImrose 1652



### REGULAR ROAD DELIVERIES

In the West of England and South Wales Areas

The House in the West for all Chemists' Supplies

Send us your orders for prompt and careful attention.

FERRIS & COMPANY LTD. BRISTOL

Manufacturing and Wholesale Chemists

Telephone: BRISTOL 21381 Telegrams: FERRIS, BRISTOL





IMPERIAL CHEMICAL INDUSTRIES LTD., LONDON, S.W.1

PN.118

# Diuromil

A medically-prescribed product for the treatment of

### RHEUMATISM — GOUT — ARTHRITIS FIBROSITIS - CYSTITIS - PYELITIS

Diuromil is an ethical product regularly prescribed by doctors all over the country. It is an effer-

vescent granular preparation of palatable taste, the formula including Piperazine and Lithium, which, acting together, are twice as effective as solvents of Uric Acid as Piperazine alone. Diuromil mobilises, eliminates and prevents precipi-tation of Uric Acid.

Regularly advertised in the medical and nursing press, but may be recommended and sold without medical prescription.

Write for sales terms, samples and literature.

### PHARMAX LIMITED

The Organ Works, Old Hill. Chislehurst, Kens.



### PACK CHEMICALS & DRUGS

speedily, securely and attractively with

Gosheron self-adhesive TAPES

\* Use Transoprint to name, number, route, publicise

Samples with pleasure

JOHN GOSHERON & CO LTD Gayford Road London W12



# SURGICAL DRESSINGS

complete range

means

AYRTON SAUNDERS & CO. LTD LIVERPOOL

# Anew Ingram's teat for 8d

Ingrams now introduce a green band spiral teat which retails at 8d. This new teat combines all the safety features of its famous predecessors, is made of the finest rubber, will withstand repeated sterilization in boiling water and is tested for flow. And is available in four distinct shapes to suit all babies. Individually packed in attractive display cartons, these new teats deserve the most prominent position on your counters and in your windows.

Commencing August next an intensive advertising campaign will be launched in the leading women's journals which have a readership of hundreds of thousands of potential customers throughout the country. Get ready for the demand by ordering ample stocks of Ingrams latest spiral teat now!



# Experience gained throughout 150 years brings you "RELIANCE" FINEST DEEP SEA SPONGES



Being the largest bulk buyers of sponges, we are able to select the best of the crop—sponges of the finest texture; and our 150 years' experience in processing ensures for the chemist trade a product that its customers greatly value.

Attractive display materials, and interesting literature are at your disposal. Your enquiries will receive expert attention, and our representative will gladly call on request.

### **CRESSWELL BROS. SPONGES**

(World Natural Sponge Suppliers Ltd.)
SPONGE IMPORTERS AND EXPORTERS

INTERNATIONAL BUILDING

BUCK STREET, CAMDEN TOWN, LONDON, N.W.I

Phone: GULliver 5462-3 Telegrams: Sponge, Norwest, London

# SELL MORE RADIAN B

Every year there is a sharp climb in our sales in the summer months. The reason is not far to seek. Cricket, tennis and athletics generally, the long evenings digging in the garden, these activities all produce twinges of aches and pains in muscles and joints.

Are you carrying sufficient stock to meet this seasonal demand? Are you showing the new counter reminder card? Because they are so attractive these showcards are in big demand and the supply is now limited So get in touch quickly with



78 UPPER RICHMOND ROAD, LONDON, S.W.15

FOR

**PATENTS** 

DRESSINGS

PILLS & TABLETS

**DANGEROUS DRUGS** 

**DRUGS & GALENICALS** 

ETHICAL PROPRIETARIES

SMITH & HILL (Chemists) Ltd.

SIDNEY ST., SHEFFIELD, I



ROAD, DERBY. Tel: 48266 (4 lines) OFFICE WORKS: MANSFIELD HEAD BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)



Wide mouthed 2 pint Vacuum Jar Model J.101

2 pint Vacuum Flask Model Q.F.

I pint Vacuum Flask Model S.C.

I pint Plastic Vacuum Jug Model P.J.

All the models in our range are fitted with VACCO refills of extra high thermal efficiency. This ensures minimum temperature change - hot contents keep piping hot and cold contents keep icy cold.

MADE IN ENGLAND

Enquiries to:

VACCO LIMITED

Grosvenor Gardens House, Grosvenor Gdns., London, S.W.I.

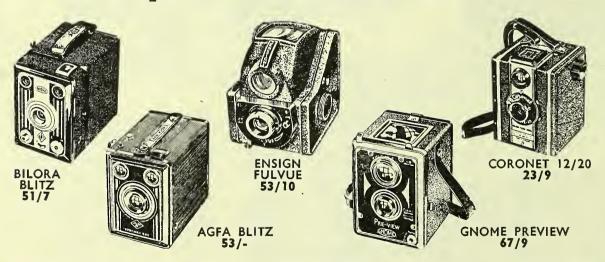
# RENTOKIL WOODWORM



RENTOKIL, LTD., FETCHAM, LEATHERHEAD, SURREY.

Tel.: Leatherhead 4021/2

### Order your cameras NOW



Also CORONET F/20 Synchronized 48/9.

CORONET POPULAR 26/2.

CONWAY BOX 30/-.





Thirteen for every dozen on orders of three dozen and over—these are the special bonus terms for BRONTAN, and they mean a profit for you of nearly 8d. on every tube sold (trade price 24/- doz. inc. tax; retail 2/6 each). It's a holiday-makers 'must,' and they'll be asking for BRONTAN by name. Here's a big seller with a bigger margin for you if you order on these advantageous bonus terms.

All orders to sole Distributors :-

### ALFRED FRANKS & BARTLETT CO. LTD.

Britain's Largest Sun-glass Distributors.

AUDREY HOUSE, ELY PLACE, LONDON, E.C.1.

Phone: HOLborn 1078/9

### and now a THIRD Profit-making Towel



- SILCOT, ever in the forefront of public demand because of its quality and yet keenly competitive price. Made from cotton-wool, with soft knitted covers and securely-stitched loops. The kind of towel which women ask for time after time. Nationally advertised, Silcot advertisements are read all the time by millions of women in the leading magazines. Brings you regular profits.
- VENSILLA, for those who want a soluble towel for convenience of disposal. A pure cellulose towel, with loops, and a soft knitted cover for a little extra comfort. Pad is of ample thickness. Meet your demands for a soluble towel with Vensilla.
- SILPAK, the recently-announced addition to our range. A cotton-wool towel with soft plastic holder. Very comfortable in wear, safe, economical, and selling at only 2/- per packet retail. Made in Size 1 only. Just the towel which many women are wanting. Silpak will bring you more sales.

SILCOT

COTTON - WOOL TOWELS In five sizes

VENSILLA SIILIPAIK

SOLUBLE TOWELS

COTTON-WOOL TOWELS WITH HOLDER Size I

SILCOT Sanitary Belts, all-elastic, adjustable, with metal hooks. In attractive cartons; one dozen in display outer

MACDONALD & SON, LTD., HÔPE MILLS, POLLARD STREET, MANCHESTER 4



### **BEST TERMS**

13/2 per dozen

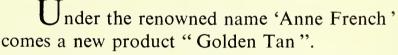
### Provided that

(a) it is included in an I.C.C. Display Bonus Parcel

or

(b) if ordered separately, quantity is not less than two dozen.

**RETAIL PRICE 2/11** 



'Anne French' Golden Tan is a cool, greaseless cream containing a special protective ingredient which prevents redness, blistering or peeling.

It helps to promote a rich attractive tan, and is particularly suitable for tender skin.

This first-class preparation is being supported by National Advertising.

There is also an attractive, easy-serve showcard-dispenser that will bring the glamour of holiday sunbathing to your counter.

Basic Trade Terms: 15/- per dozen.



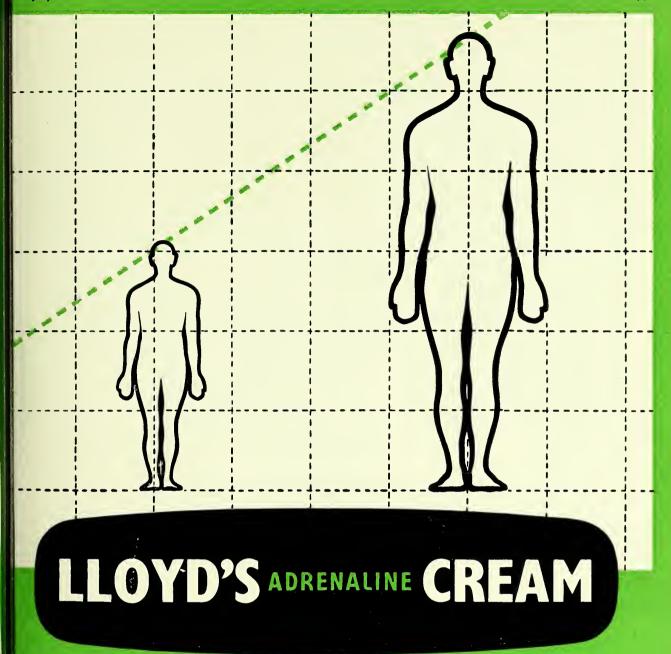
Choose your I.C.C.
Display Bonus Parcel from:

'Anadin' 'Anne French' 'BiSoDoL' 'Bisurated' Magnesia 'Freezone' 'Kolynos' Preparations

INTERNATIONAL CHEMICAL CO. LIMITED Chenies Street, London, W.C.1

# Repeat sales of Lloyd's Adrenaline Cream are nearly 100%

CHEMISTS all over the country report that Lloyd's Adrenaline Cream is selling very fast, and that repeat sales are nearly 100%. Why? Because Lloyd's Adrenaline Cream really lives up to its claims—it does relieve rheumatic pain. Doctors and hospitals, too, are using and recommending Lloyd's Adrenaline Cream. More and more of your customers are learning about this marvellous new treatment for rheumatism, by way of Lloyd's widespread and sincere advertising. They'll be in your shop asking for Lloyd's Adrenaline Cream any day now. Don't disappoint them, and lose their repeat business. Make sure you're well stocked with Lloyd's Adrenaline Cream. Retail prices: 5/- and 7/- a jar and 3/- for the new handy size tube.



Lloyd's Adrenaline Cream lives up to very claim its manufacturers make for it.

Repeat sales are nearly 100%—because sers find Lloyd's Adrenaline Cream really yorks.

Widespread and sincere advertising, in ewspapers and magazines with a total circulation of over fifty-five million, tell your ustomers about Lloyd's Adrenaline Cream.

More and more doctors and hospitals re using and recommending Lloyd's drenaline Cream.

The medical profession is kept constantly informed of latest clinical results through advertising in the medical press.

Attractive display material is available free on application to us.

All enquiries and requests for display material to:

### **HOWARD LLOYD & CO. LTD.,**

II WATERLOO PLACE, LONDON, S.W.1. AND LEICESTER.

PRDER **NOW** FROM YOUR WHOLESALER

### ..THE MAN WHO WOULDN'T BELIEVE A THING

There's more profit in Corvette

rette is an exceptionally good profit-making line for the nist. The shaving bowl earns you a profit of 1/6d, the refill and all other products in the range yield not less than 10d. Nice sort of chap, this customer of mine, but someone must have sold him a dud rattle in his cradle.

He 'knew' Corvette wasn't any good.

I told him I'd tried it myself and liked it
—that other customers were enthusiastic
about its quality. He knew that was just
sales talk. He'd heard it all before...

Try it, I told him a bit stiffly. And give him his due—he did. Back he came in a few days whistling a vastly different tune. Corvette was good . . . refreshingly good . . . better than anything he'd tried before. He took off his hat to Goya's men's division. From then on, he said he'd buy the stuff. And oddly enough I believe him.

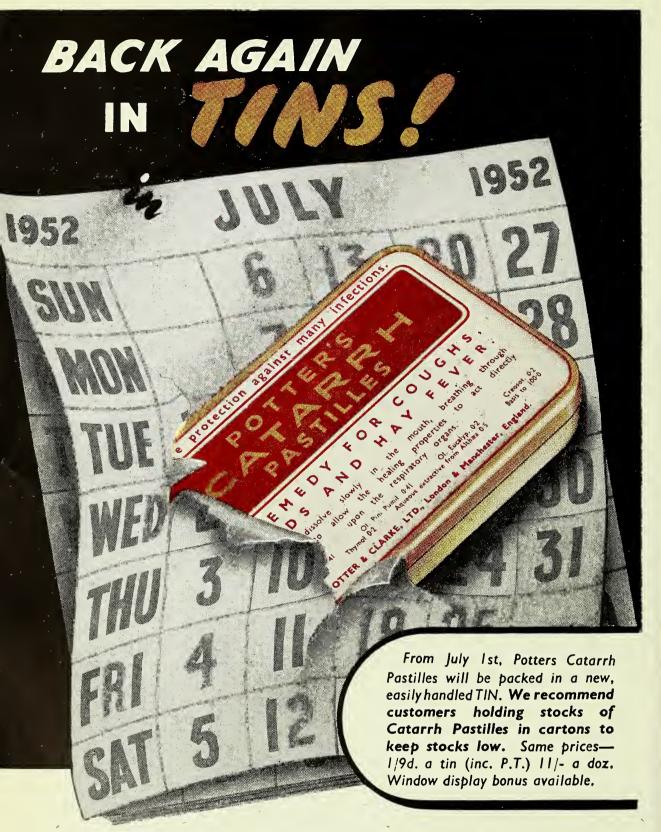
VING STICK 3/- · SHAVING BOWL 5/6 · LATHER SHAVING CREAM 3/- · BRUSHLESS VING CREAM 3/- · HAIR CREAM 3/6 · BRILLIANTINE 4/- · SOLID BRILLIANTINE 3/6 TALCUM POWDER 4/6 · AFTER SHAVE LOTION 4/-

### Corvette

a new range of matched toilet preparations by Goya (MEN'S DIVISION)

IEI NEW BOND STREET LONDON WI





### POTTER & CLARKE LTD.

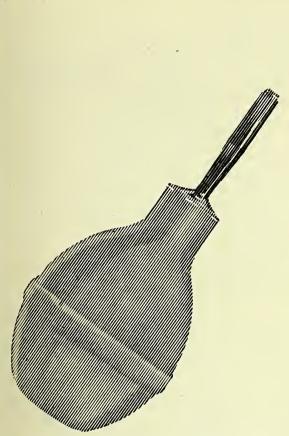
60-64 ARTILLERY LANE, LONDON, E.I

Phone: BISHOPSGATE 4761

Grams: Horehound, Phone, London.

77 DANTZIC STREET, MANCHESTER • Phone: Blackfriars 8734 • Grams: Horehound, Manchester. 62 ORBISTON STREET, MOTHERWELL • Phone: Motherwell 1413 • Grams: Horehound, Motherwell.

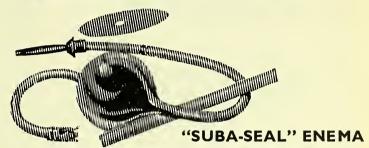
Agents in Northern Ireland: HAROLD MITCHELL & CO. LTD., 321 GROSVENOR ROAD, BELFAST. Tel: 24356

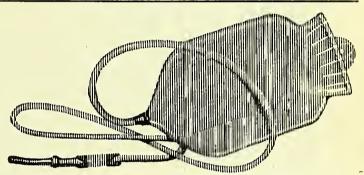


THE range of SUBA-SEAL Pharmaceutical Products conforms to the best principles of present day practice in their many applications. Durable, safe and made to withstand repeated sterilizations where necessary, they are outstanding examples of design and rubber technology at its peak. They are distinctively, if reticently, packed for ready sale to a public already appreciative of the qualities of SUBA-SEAL productions. The standards applying to SUBA-SEAL in the Hot Water Bottle field are maintained, guaranteeing your profit, and the satisfaction of your customer.

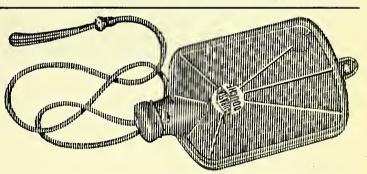
WRITE TO







FOUNTAIN DOUCHE



CLOSED MOUTH DOUCHE

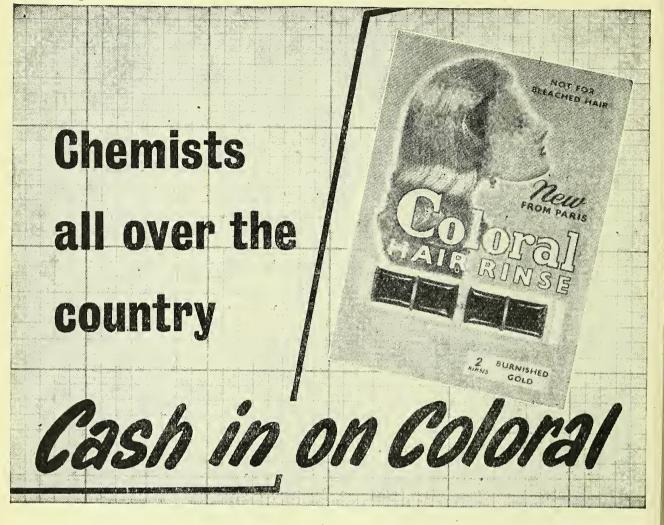


WILLIAM FREEMAN

SUBA-SEAL WORKS · PEEL ST. · BARNSLEY · YORKS

TELEPHONE: BARNSLEY 4381 TELEGRAMS: SUBASEAL, BARNSLEY

Manufacturers of the SUBA-MAID rubber household ware



**Coloral** — the new French Hair Colour rinse, has achieved new sales records every month since its introduction to this country last June. It is now, beyond question, an *established success* and tens of thousands of women are *regular users*. If you are not stocking COLORAL you are missing a quick selling line which will bring you *ever increasing profits*. The attractive cards, each carrying two rinses, have only to be shown to sell. Get a stock from your wholesaler NOW!

COLORAL Liquid

Regularly advertised in the leading Women's Magazines and on London's Underground.

Made in six shades—Burnished Gold, Auburn, Deep Brunette, Hazel Brown, Velvet Brown, Steel Blue.

In attractive display outers each containing two dozen cards.

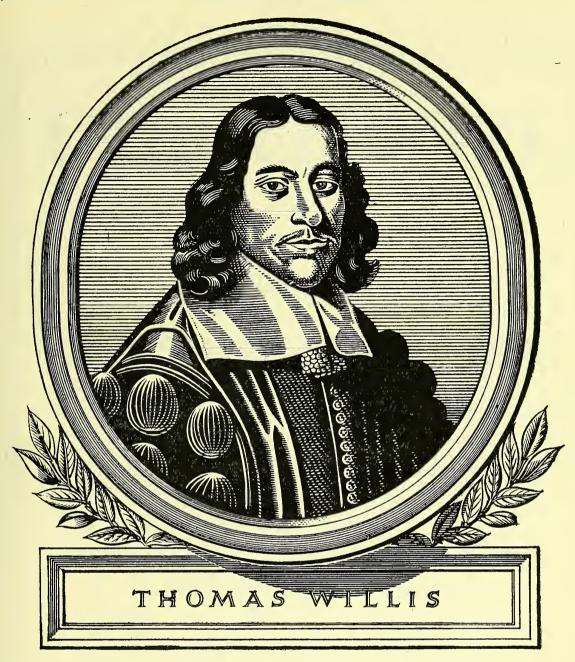
Retail Price:
1/3 per card of 2 Rinses

TRADE PRICE: 6/- per dozen cards (plus 100% tax), in boxes of two dozen cards of any one shade or in a fixed assortment of two dozen.

Product of L'Oreal, Paris.

Pecked and Distributed in Great Britain by

GOLDEN LIMITED · 2/4 DEAN STREET · LONDON · W.I GERrard 4926



Foremost in diabetes — Diabetes mellitus was first distinguished from diabetes insipidus by Thomas Willis, the 17th century anatomist and physician. His name is indelibly recorded in the annals of diabetic research. The brand name 'Wellcome,' applied to insulins, is held in similarly high esteem by all who dispense or prescribe for the disease. Whichever type of insulin you are asked to supply, a 'Wellcome' brand preparation is available.

### WELLCOME GLOBIN

INSULIN (Unmodified or Soluble)
GLOBIN INSULIN (with Zinc)
PROTAMINE ZINC INSULIN



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

# ANTISTIN-PRIVINE

Antihistamine

Vasoconstrictor

The Decongestant with immediate effect in

### ALLERGIC RHINITIS

and conjunctivitis

The intense irritation, nasal discharge and lachrymation

### RELIEVED FOR SEVERAL HOURS BY A SINGLE APPLICATION

Convenient Pocket Nebulisers for nasal application. Dropper bottles for use in nose and eye. Bottles of 4 and 20 fl. ozs.

Antistin-Privine contains 0.5% w/v 2-phenylbenzylaminomethyl imidazoline sulphate and 0.025% w/v 2-(naphthylmethyl)-imidazoline nitrate.

'Antistin' and 'Privine' are registered trade marks: Reg. user

### CIBA LABORATORIES LIMITED

HORSHAM · SUSSEX

Telephone: Horsham 1234

Telegrams: Cibalabs, Horsham

### INFANTILE GASTRO-ENTERITIS

Sterathal Suspension contains phthalyl sulphacetamide (10.5%)—a new sulphonamide of low toxicity which exerts maximum chemotherapeutic activity in both the lumen and wall of the intestinal tract. Systemic absorption is negligible and also included is Pectin (2.5%), a de-toxicant in the large bowel and Kaolin (10%), a protective and adsorbent in the small intestine.

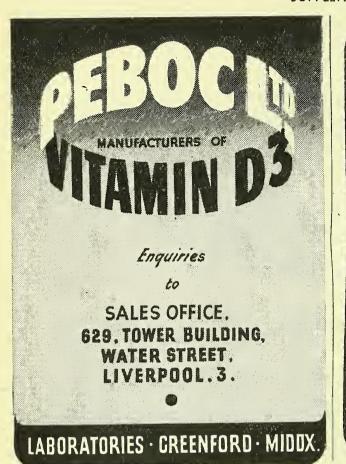
Although the Suspension contains no sugar, it is palatable and readily acceptable by both children and adults alike in the treatment of specific and non-specific diarrhoeas, gastro-enteritis and the so-called "summer diarrhoea" which is so prevalent at this time of year.

Packing: Bottles of 4 and 16 fluid ounces.



### WARD, BLENKINSOP & CO., LTD.

Makers of Ekammon for Safer Salicylate Therapy



JKL

AGAR-AGAR
BALSAM TOLU ORIGINAL IMPORT
GRINDELIA HERB
HYDRASTIS ROOT
LOBELIA HERB
PAPAIN
SABADILLA SEED
SQUILLS-WHITE CUT
WITCH HAZEL LEAVES
WITCH HAZEL BARK
and all other
Botanicals, Gums, Waxes,
Essential Oils and Spices

JOHN KELLYS (LONDON) & TD.

Gresham House, 24 OLD BROAD STREET, E.C.2

Telephone: London Wall 4882, 6585, 6586 Telegrams: "Ergotine, Stock, London" Branches in New York and Hamburg

Ammonium Carbonate
Chalk—Precipitated and Prepared
Cresylic Acid
Coal Tar Disinfectants

Magnesium Carbonate (Pond.)

**Emulsifiers** 

Synthetic Detergents

**Naphthaline** 

Toluene, Xylene

Zinc Oxide

**DUNN BROTHERS'** 

SUCCRS. LTD.

I BOOTH STREET, MANCHESTER

Established 75 years

### STANDARD SYNTHETICS

LIMITED

Actual distillers of Essential Oils

Manufacturers of Aromatics, Perfume

Bases and Flavours.

We specialise in Cinnamon Bark Oil,
Juniper Berry Oil, Wintergreen Oil, Eucalyptol,
French Lavender Oil, Terpencless Lemon Oil, Rose
Perfumes, etc.

76 Glentham Rd., Barnes London - S.W.13

Telephone:-Riverside 3616

# Introducing a new



### Contraceptive Cream

ANTEMIN has been formulated in the light of modern research to afford all the qualities desirable in a contraceptive preparation.

### Antemin

Retail Price . . 3/- per tube Trade Discount  $33\frac{1}{3}\%$ 

- Cosmetic type cream base—Non-friable and tenacious.
- Spermicidal activity S/8.
- pH. value approximating to normal vaginal secretion.
- Non-irritant to the vaginal mucosa—Non-toxic.
- Simple in application. Inexpensive.
- Approved by the Family Planning Association for use in conjunction with a mechanical barrier.

Medical literature available to Pharmacists on request.

- Manufactured by -

### COATES & COOPER LTD.

PYRAMID WORKS

WEST DRAYTON

MIDDX.



### ATTENTION!

DRIED YEAST B.P.C.
Recognised as

MEDICINAL YEAST
Supplied in 1 lb tins by
THE DISTILLERS CO. LTD.,
12 Torphichen Street,
Edinburgh, 3



# Pre-war sales in Britain increased TENFOLD

in 3½ years!

HANDKERCHIEFS

What better proof
that Kleenex\* sells on sight than a
tenfold sales increase in 3½ years?
Kleenex—now made in England by the
same exclusive patented process that
made it Canada's and America's
best-selling tissue.

STOCK and DISPLAY Kleenex NOW! Kleenex—to be backed by the biggest advertising campaign in the history of tissue handkerchiefs in Britain! \*Reg. Trade Mark The ONLY tissue that "pops up one-at-a-time"

RETAIL PRICE

150 ECONOMY SIZE 1/-

200 REGULAR SIZE 2/-

Made in England by Cellucotton Products Ltd., 33 Aylmer Parade, N.2

PLACE YOUR ORDER THROUGH YOUR WHOLESALER TODAY!

FOR HOME & EXPORT

SULPHONAMIDES

and

ANTIBIOTICS



★ We can supply these and many other drugs advantageously.

M.W.HARDY
AND COMPANY
(OVERSEAS) LTD

PINNERS HALL-GT WINCHESTER ST-LONDON-E.C.2

TELEPHONE CONDON WALL 7131



BOTTLES 1-oz. to 20-oz.

RIBBED OVALS Cork MouthorScrew

> VIALS ½-oz. to 3-oz.

TABLET
BOTTLES
Nos, 1 to 7½ sizes,

ROUND SCREW JARS

Tall and Semi-Squat

PANELLED FLATS 1-oz. to 4-oz.

BOW FRONT PANELS 1-oz. to 8-oz.

NATIONAL GLASS WORKS (YORK) LTD.

FISHERGATE, YORK, England. Tel. York 3021 also at 105, Hatton Garden, London, E.C.1. Tel. Holborn 2146

WHOLESALE ONLY



TRADE M A R K



Ransom's Tincture of Belladonna owes its unsurpassed quality to the care and skill which is exercised at every stage of its production.



The finest vegetable drugs and galenicals come only from the finest plants. Cultivation of medicinal plants is an art that comes only from long experience. It is because Ransoms of Hitchin have specialised in drug growing for over a century that the name Ransom has become synonymous with unsurpassed quality in drugs and galenicals in all parts of the world.

Actual growers of belladonna, hendane, foxglove, chamomile peppermint and lavender

Established 1846

# WILLIAM RANSOM & SON LTD. Hitchin Hertfordshire England

CALCIUM GLUCONATE

CITRIC ACID

CREAM OF TARTAR

ITACONIC ACID

ROCHELLE SALTS

TARTARIC ACID

LITHIUM SALTS

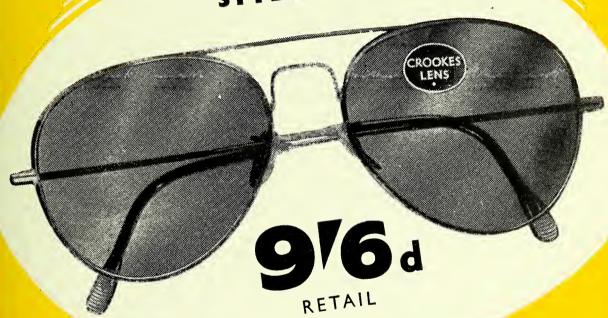
*Est.* 1870

Add Add Shift Shif

Crown Chemical Works, Three Mill Lane, Bromley-by-Bow, London, E.3.
Telegraphic Address: KEMBALL, LONDON • Telephone: ADVANCE 1234 (7 LINES)

# BARTLETT'S AMAZING NEW VALUE IN METAL FRAME SUN GLASSES

STYLE 401



Another new Bartlett style at a new, keener than ever price. Now ready for immediate delivery — wide vision, gilt or nickel frames

(shape illustrated only), plastic earpieces, adjustable nose pads, Crookes Lenses. Order now through your usual wholesaler.

#### BARTLETT'S

# SUN GLASSES

NOTE NEW ADDRESS

#### Alfred Franks and Bartlett Company Limited

226/8 GRAYS INN ROAD, LONDON, W.C.I Telephone: TERminus 9865 (4 lines)

ALL WHOLESALE ENQUIRIES TO THIS ADDRESS, PLEASE

### PRESSED MEDICINE TUMBLERS

Supplied in 1-oz. and 2-oz. sizes—with Graduations moulded in the glass in Tablespoons, Teaspoons, Fluid Ounces and Drachms.

# another W mound



BROTHERS GLASS CO.





Fully wrapped in transparent film... with its whiteness and pureness immediately visible... it will stand on your counter on this small but ingenious stand which will soon be available free to all stockists.

# NUCTA OIL

THE SOAPLESS OIL SHAMPOO



with the scalp penetrating action



AVAILABLE FOR COUNTER SALE In 4 oz. size selling at .. .. 2/9

(18/- per doz. plus tax)

In 8 oz. size selling at ...  $4/3\frac{1}{2}$  (28/- per doz. plus tax)

A NUCTA SPECIALTY
PRODUCT

\*

OBTAINABLE FROM YOUR USUAL WHOLESALER

Manufactured by:

STEWART, GOODALL & DUNLOP LTD., 121a PRINCES STREET, EDINBURGH



# This FREE Booklet

containing 40 pages of valuable information tells you how to

qualify for a DIPLOMA in CHIROPODY by specialised correspondence lessons.

How to enter this highly-paid profession is fully explained in the pages of our booklet.

Write now to:

SCHOOL of CHIROPODY (DEPT. CD)

Leatherhead · Surrey

The House of

### Haywood

ESTABLISHED 1830

offers :-

DAILY VAN DELIVERY SERVICE

ETHICALS
PATENTS
SUNDRIES
DRESSINGS ETC

and

NATIONAL HEALTH SERVICE
APPLIANCES

TRUSSES, ELASTIC HOSIERY SURGICAL BELTS: ALL MADE IN OUR OWN FACTORY TO YOUR OWN MEASUREMENTS AND DISPATCHED BY RETURN.

TRADE ONLY

REG. OFFICE AND WORKS WARSER GATE NOTTINGHAM

PHONE: 46691 (3 lines) and 45164 GRAMS:
Appliance Nottm.



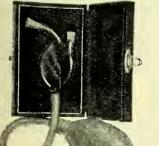
Only the clear waters of Scottish Lochs are used in the crystallization of Jarvie's Quinine Salts

H. JARVIE & CO., LTD. SCOTIA CHEMICAL WORKS COATBRIDGE, SCOTLAND

> EXPORT ENQUIRIES TO: H. JARVIE & CO., LTD. Wigmore House, 10 Duke St., London. W.I Estd. 1892

The following RIDDELL Asthma Inhalers can be supplied on E C 10 forms:—

**ASTHMATOR** 14/6 Retail 8/9 Cost DRITAX 18/-11/1 RIDDOFAN (In Leatherette Case) 19/3 12/3 12/4 POCKET RIDDOPAG 20/6 RIDDOPAG (INC.) 25/-15/-



AND THE POPULAR-

12.5 gm.; 25 gm.; **ASTHMA** RIDDOBRON INHALANT and 100 gm.

#### RIDDELL PRODUCTS

WARWICK STREET **AXTELL HOUSE** 



LONDON

W.I

P.A.T.A.

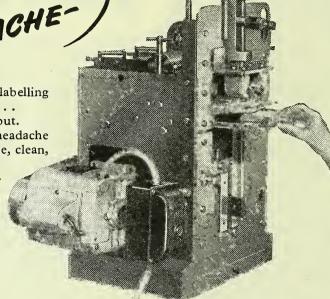
Telephone: GERrard 3754 (3 lines)



"The labels were not always straight ... the labelling machine itself was large, unwieldy and noisy ... stoppages were frequent and reduced the output.

"Since installing the NEWMAN labeller the headache has disappeared. It is compact, dead accurate, clean, practically silent and a pleasure to operate."

Send for details of the NEWMAN Labellers—possibly the most compact precision labelling machines in the world.



NEWSAN
There are all

There are other Newman Labellers for all-over gumming and an Automatic Machine for completely or partly labelling small cylindrical objects from  $\frac{2}{3}$ " to  $1\frac{2}{3}$ " diam.—details on request.

D. TRAPOW & CO. LTD., ENGINEERS (DEPT. 18), 113 REGENTS PARK RD., CHALK FARM, LONDON, N.W.I Tel: PRimrose 6688

## COLLAPSIBLE TUBES

Collapsible Tubes from Stock, in I gross lots and above, for Chemists and Laboratories who make their own creams and ointments.

Price list and samples upon request.

IMPAX WORKS (Mail Order Department)
Browells Lane, FELTHAM, Middx.

Telephone: Feltham 4211 (2 lines)

"CELLOPHANE" CAN NOW BE USED FOR ANY PURPOSE

#### "CELLOPHANE BAGS"

A few stock sizes All per 1,000 (Reductions for quantities)

"CELLOPHANE" SHEETS 30 x 20 a limited quantity now in stock 70/- per ream (500)

WHITE TISSUE PAPER 16 x 26 5 reams for 75/10 for 140/-

SAMPLES WITH PLEASURE

ALLAN'S 37 FARRINGDON STREET LONDON · E · C4 Phone CENtral 5947

FOR SCIENTIFIC AND MEDICAL GLASSWARE OF SUPERLATIVE QUALITY

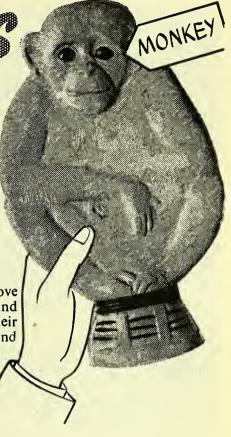
CANCELLA SECOLAR SECOLAR SECOLAR SECOLAR SECOLAR SECONDON, S.W.I TELEPHONE: ABBEY 4151



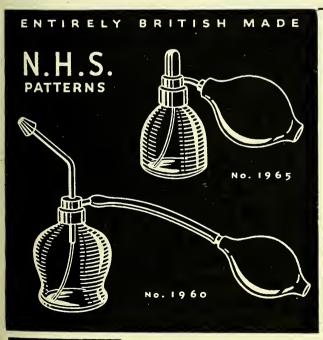


CHILDREN'S HOT WATER BOTTLES

Young customers will love these cuddly bottles. And mothers will gladly put their trust in Dunlop value and quality. Children's bottles are also available in Clown, Bunny, Doggy, Teddy, Kitty and Red Riding Hood designs.



Dunlop Rubber Co. Ltd., (General Rubber Goods Division), Cambridge Street, Manchester 1.





SAMCO Atomisers and Sprays differ from types in general use in that each model is a Scientific Instrument specially designed to handle all types of spraying compounds without the necessity to adjust the nozzle of the instrument in any way.

Each instrument is manufactured and assembled to mathematically exact limits thereby assuring uniform performance.

Materials of the finest quality only are used and all components in direct contact with fluids are made of pure nickel, which is impervious to every known substance used in medical prescriptions.

All components are heavily chromium plated.

All SAMCO models are pressure operated, thus ensuring complete atomisation.

WHOLESALE & EXPORT ONLY

ACTUAL MANUFACTURERS

PHONE: EUSTON 1757 & 5514

S. MURRAY & Co. Ltd.

45 ST. PANCRAS WAY, LONDON, N.W.I

#### Modern Treatment for

#### **FUNGOUS SKIN INFECTIONS**

It is now firmly established that the skin protects itself against infection by its "acid mantle." Experiments have proved that the higher fatty acids are extremely effective fungicides which do not produce contact dermatitis.

Decilderm Ointment and Powder (Duncan) present the particularly effective fatty acid, undecylenic acid, and its zinc salt. Both preparations are pleasantly perfumed and are easy to apply. They can be used for long periods, if necessary, and are valuable for the treatment of tinea pedis (athlete's foot), tinea cruris (dhobi itch), moniliasis, etc.



1 oz. tubes (Undecylenic acid 5%—zinc salt 20%)

DECILDERM POWDER (Duncan)

2 oz. sprinklers (Undecylenic acid 2%—zinc salt 20%)

Prices and Literature on request

#### DUNCAN, FLOCKHART & CO. LTD.

EDINBURGH



— Your SALES are assured if you stock SHADEINE!

Still the best hair tint. In all natural shades. Stocked by all wholesalers. Trade prices—I oz. 18/- per doz., 2 oz. 29/7 per doz. Purchase Tax 100%. Retail Prices 3/6 and 5/9 per bottle respectively. Also the new GOLDEN SHADEINE for lightening mousey hair. 2 oz. 18/- per doz., Purchase Tax 100%. Retail Price 3/6 per bottle.



THE SHADEINE CO.
49 Churchfield Rd. Acton, London, W3.



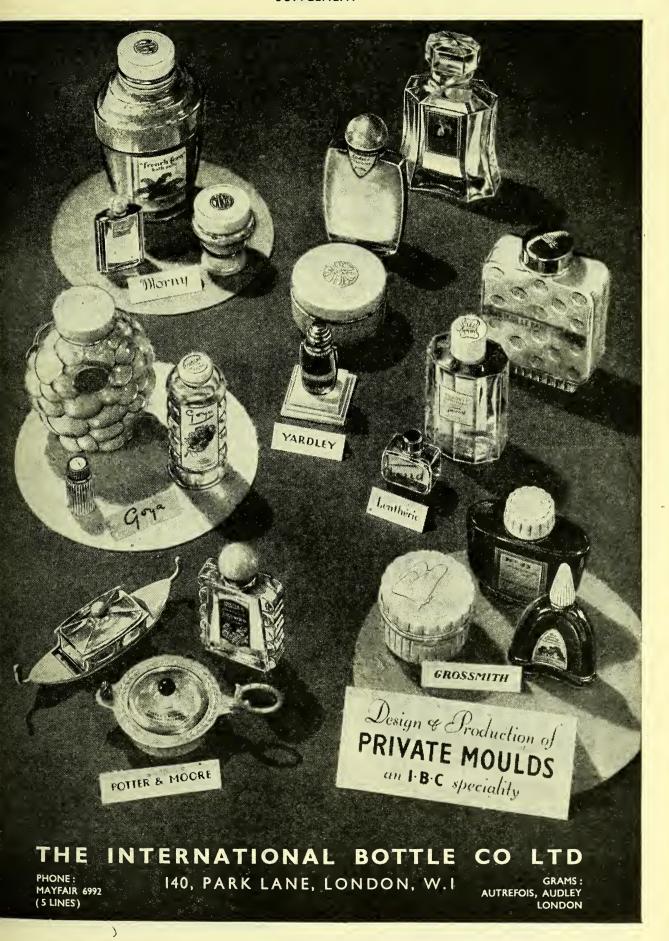
LONDON

GLEDHILL

British Made Cash Registers and Tills for every type of business

G. H. GLEDHILL & SONS

24 Trinity Works, HALIFAX



# A SURE SELLING LINE ZATTOCIN GARLIC TABLETS

for CATARRH, COUGHS and COLDS

Keep a Zytocin display pack on your counter and it cannot fail to bring you quick and ready sales. Extensively advertised, Zytocin tablets contain the active principles of garlic and are Odourless, leaving neither taste nor taint on person or breath. For the relief of CATARRH, COUGHS and COLDS, the powerful aid of ZYTOCIN Garlic Tablets has repeatedly proved invaluable.

Sold by Boots, Timothy Whites and Taylors Ltd.
and other leading Chemists

EMION LIMITED,

22 GREAT SMITH STREET, LONDON, S.W.I



ZYTOCIN TABLETS

63 TABLETS
(Full3 weeks'supply) (7-daytrial pack
Retail 5/- per tin Retail 1/11 per pacl
Trade 42/- per doz. Trade 18/- per doz
(Usual Wholesale terms apply)

When your Customers ask for RAT POISON

you are safe in selling

PHOSPHORUS OR RED SQUILL

With RODINE there is no hit or miss—each and every batch is laboratory tested to ensure the strength and biological activity of the toxic chemicals employed.

SOUND PROFITS TO YOU AND YOUR CUSTOMER

THOMAS HARLEY L.T.D.
PERTH, SCOTLAND
P.A.T.A.

THE HOME NEWSPAPER THROUGHOUT NORTHERN IRELAND

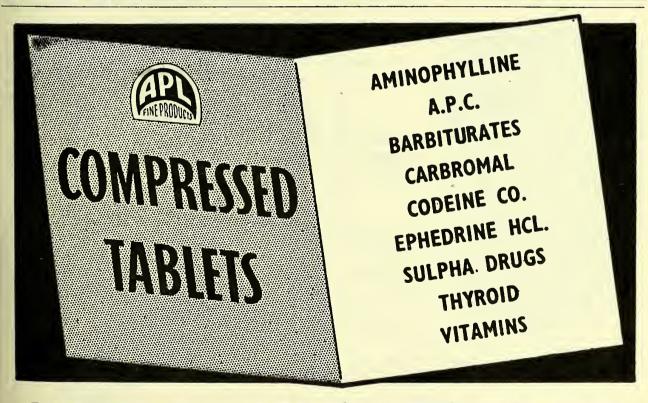


MERCOLIZED WAX—for nightly skin care
MERCOLIZED FOUNDATION CREAM
MERCOLIZED ASTRINGENT LOTION

STALLAX — the family shampoo SIPOLITE — a powder depilatory PILENTA SOAP — for the complexion

Supplies obtainable from our distributors:

POTTER & MOORE LIMITED Lavender House, Seymour Road, Leyton, London, E.10



## AMBER PHARMAGEUTICALS LTD.

Manufacturers of Fine Chemicals and Pharmaceutical Products

BYRON HOUSE, 7-9 ST. JAMES'S STREET, LONDON, S.W.I



the relief of the pains C.F. of Rheumatism, Gout, Lumbago, Sciatica and Neuritis.

Sciatica and Neuritis.	RETAIL (inc.Pur.Tax)	WHOLESALE (Plus Tax)
EADE'S PILLS	1/10 4/- 6/9	13/3 doz. 28/9 doz. 48/6 doz.
EADE'S UNIVERSAL ANODYNE	1/10 4/-	13/3 doz. 28/9 doz.

EADE'S PILLS LTD. (Dept. C. & D.) 232 Goswell Road, London, E.C.1. Clerkenwell 3370

# Health Insurance demands



HAROLD WESLEY LTD HARLEY MILLS  $N \cdot W \cdot 10$ LONDON

RECOMMEND

with confidence

PENETRATES and REBUILDS DAM-AGED TISSUE in SKIN ILLNESSES Remarkable for the Treatment of Burns, Spots, Rashes, etc.

BIO-COLLOIDS LTD., Altrincham, Cheshire BO85

#### WIDOW WELCH'S FEMALE PILLS

9d. BOX PROFIT by ordering I dozen Bonus given on every dozen (13). It pays to push this size.

KEARSLEY DARTMOUTH RD., LONDON, S.E.23 Established 1787 In the Reign of King George #

#### LATIN PHARMACEUTICAL FOR STUDENTS

Fifth edition 1950. (J. W. Cooper and A. C. Maclaren)

This revised and up-to-date edition provides a concise six months course of Latin for Students of Pharmacy and Medicine. Following publication of the B.P. 1948, numerous additions and alterations in official nomenclature have been introduced. The book comprises II lessons—each representing one fortnight's work and is complete with Latin-English and English-Latin vocabularies arranged for quick and easy reference. A copy will be sent by return of post if you send remittance value 9/- to

The Publisher,:-- The CHEMIST AND DRUGGIST 28 ESSEX ST., STRAND, LONDON, W.C.2

#### The SENESCHAL CORN PLANE

On cards of six planes

Obtainable from your usual wholesaler

THE SENESCHAL MANUFACTURING CO.

12 EXETER ROAD, LONDON, N.W.2

Phone : **GLAdstone** 4187



.. RAPID **REGULAR SALES** 

because IT REALLY IS EFFECTIVE!

ANTI-COAGULANT MOUSE EXTERMINATOR

FROM CHEMISTS, STORES, ETC. OR DIRECT FROM:

SOREX (London) Ltd MAIDSTONE . KENT

Typical of the national advertising which will direct men and women to your shop to ask for SQUEAK is this powerful advertisement appearing regularly in "John Bull" and "Illustrated"

The active principle of SQUEAK is an anti-coagulant of the dicoumarin type. Three years of research Squeak and trials have proved the efficacy of SQUEAK. Safe for children and pets. Does not contaminate food.

STOCK UP WITH SOUEAK

National advertising—and the recommendation of your customers -will make SQUEAK the biggest, fastest and easiest seller.



If any difficulty in obtaining supplies, write to the proprietors, enclosing the name of your wholesaler:-

SOREX (London) Ltd

105 TONBRIDGE ROAD Telephone: MAIDSTONE 2894

## Chlorophyll – Cuticura Cuticura – Chlorophyll

For many years past CHLOROPHYLL—nature's own skin healing element—has been skilfully blended with fine medicaments and rich oils in the high quality, super-fatted

# CUTICURA SOAPS CUTICURA OINTMENTS CUTICURA SHAVING STICKS

This is one of the many important reasons why an evergrowing circle of discriminating people always insist upon these soothing, protective, fragrant Preparations for everyday care of the skin. Display these firm family favourites, and make sure that this steady all-the-year-round repeat business comes to you!

RETAILS AT 60.

THE LIPTOL

**SEMI-CREPE TOILET ROLL** 

(attractively banded)

WHOLESALE:

44/= Per Gross

Carriage Paid

Samples on request

LIPTON'S PAPER MILLS

LIMITED

DEVONSHIRE WORKS, DUKES AVENUE, CHISWICK,

W.4

Telephone: Chiswick 3600 (8 lines)

An important monograph:-

## ELECTROPHYSIOLOGICAL TECHNIQUE

by C. J. Dickinson, B.A., B.Sc. (Magdalen College, Oxford)
Price 12/6

The author describes the use of electronic methods as applied to research in Neuro-physiology. Chapters are devoted to amplifying, recording and stimulating techniques used in physiology and medicine (e.g. electrocardiography, electroencephalography, etc.)

Extracts from recent reviews:-

"This laboratory handbook will be welcomed by all physiologists who are engaged in laboratory or clinical research."

(Journal of Neurology, Neurosurgery and Psychiatry)

"Can be recommended to all who are concerned in electrophysiological measurements."

(Journal of Scientific Instruments)

Order through your bookseller or direct from the publisher:—

ELECTRONIC ENGINEERING 28ESSEX ST. STRAND, LONDON, W.C.2

# Hewlett's VITONAGEN

Brand

#### RECONSTRUCTIVE TONIC

Vitamin B<sub>1</sub>, Glycerophosphates and Strychnine in a palatable base. Particularly suitable for administration in cases of Neurasthenia, Neuritis, general debility, etc.

DOSE: One to two teaspoonfuls with water three times daily after meals

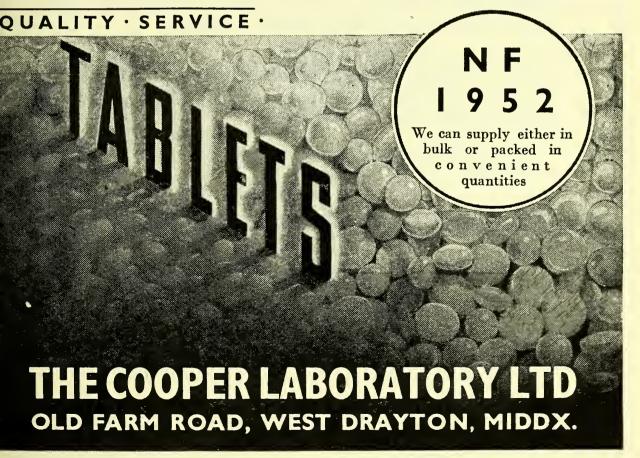
Bottles of 4 fl. ozs. and 8 fl. ozs. each in carton

also bottles of 20 fl. ozs. and 90 fl. ozs. for dispensing

C. J. HEWLETT & SON LTD.

35-43 CHARLOTTE ROAD, LONDON, E.C.2

and at 216 Orr Street, Glasgow, S.E.



· COMPETITIVE PRICES ·

#### PHARMACEUTICAL EMULSIONS & EMULSIFIERS

by L. M. Spalton, B. Pharm., M.P.S.

Today, the pharmacist is faced with an almost bewildering assortment of emulsifying agents, all having varying properties and requiring different methods of treatment.

In this book the considerable range of these products has been classified together with essential practical points about their pharmaceutical use. It contains chapters devoted to the theory of the formation of emulsions, properties of different emulsifying agents (classified into groups according to their structure and characteristics), the formulation and preparation of emulsions, the general methods of preparing emulsions with details of technique and causes of emulsion separation, preservation and storage of emulsions etc.

The practical uses of emulsions is dealt with at considerable length. together with methods of handling each type of emulsifying agent and full notes of incompatibilities and other matters.

The book also contains a classified index of over 300 emulsion agents used in the Drug, Toilet and Cosmetic trades and other industries, with references to their composition, type and uses together with an index of manufacturers.

Useful and up-to-date—this book provides essential information in concise form.

EVERY PHARMACIST SHOULD POSSESS A COPY

5/6 post free

Send remittance with order to:-

The Publisher, THE CHEMIST & DRUGGIST 28 Essex Street, Strand, London, W.C.2



Have you seen

new beautifully designed showcard size 23" x 17½" In full colours?

With the two side panels 17" x 10½' each also supplied, the whole makes an attractive window display that compels attention, and creates sales.

THE COMPLETE SET IS FREE. Ask our representative, or write to us for your FREE set.

EDME "AUTUMN SUN" is the Malt and Oil with the "taking flavour."

For prices and further particulars write to:-

EDME LIMITED

84-86 REGENT ST., LONDON, W.1

Phone: Regent 5563-4

# ENTROSALYL

Capsules

A new presentation of sodium salicylate in capsule form which obviates all the disadvantages associated with the administration of sodium salicylate in its usual form.

Each capsule contains 0.5 G. sodium salicylate and may be taken with complete freedom from nausea or gastric irritation.

P.A.T.A. Trade Prices:-

50's 36/- per doz. + 11/7 P.T. 200's dispensing pack 116/- per doz. 1000's dispensing pack 400/- per doz.

(Dispensing Packs tax free)

CONTINENTAL LABORATORIES LTD

101 Great Russell
Telephone: Museum 2042-3

Street,

London, W.C.I.

Telegrams: Taxolabs, Phone, London

BROWN & Sole Wholesale Distributors:

Particulars of latest Ferrania cameras and films from

NEWMAN STREET, LONDON, W.I. LANgham 7161 (10 lines) Alen available from leading Chemists' Wholesalers REVILLE
77 NEWMAN STR

Printed by The HAYCOCK PRESS, LTD., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Froprietors, MORGAN BROTHERS (PUBLISHERS), LIMITED at 28 Essex Street, Strand, London, W.C.2.

Cassettes F.G. Pan

# CHEMIST AND DRUGGIST

for RETAILER — WHOLESALER — MANUFACTURER

JULY 5, 1952

#### Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

Single copies 1/- each. Annual Subscription, which includes The Chemist and Druggist Diary and Year Book, £2

Volume CLVIII	CONT	<b>ENTS</b> No. 3776
A Century of Service and		Local N.H.S. Statistics 27
Associations	16	Local News 2
A Mechanised Bed-Pan	23	London Sees Hunterian Collection 10
Business Changes	7	Machinery Notes 15
C. & D. Refresher Course	25	Manufacture of Injections—3 21
Coming Events	6	National Pharmaceutical Union 13
Deaths	4	New Companies 7
Echoes of the Past	32	News in Pictures 8
Editorial Articles:—		Personalities 6
Tidying the Poisons Law	19	Price Changes Pink Supplement
Pricing in the Doldrums	19	Proposed Poisons Amendments 9
How Many per Form?	20	The Week in Parliament 6
Overseas Trade in May	20	Topical Reflections 5
Guide to New Medicaments	24	Trade Marks 32
Irish News	3	Trade Notes
Irish Restrictive Practices Bill	11	Trade Report 28
Legal Reports	12	World Trade 31
Logar Reports	• • 4 dd	TOTAL ARABE

#### **NEWS OF THE WEEK**

Centres for Treatment of Burns.—The Ministry of Health is asking all Regional Hospital Boards and hospital boards of governors to consider the establishment, in each hospital region, of a unit for the treatment of burns.

Pharmacists' Co-operation Praised.—Addressing the annual Conference of the Association of Hospital Management Committees at Cardiff on June 13, Miss Pat Hornsby-Smith (Parliamentary Secretary to the Ministry of Health) praised individual examples of savings by hospital management committees, among which was a saving of £3,000 by closer co-operation between the pharmacist and the medical and nursing staffs of a hospital.

Increased National Insurance Contributions.—Under an Order (S.I., 1952, No. 1249) made by the Minister of National Insurance, October 6 is the day appointed for the following National Insurance contributions to be applied:—Employed men over age eighteen, 5s. 9d. (employer, 5s.); employed women over age eighteen, 4s. 6d. (3s. 11d.); and self-employed men

and women, 7s. 5d. and 6s. 2d. respectively. The Order came into operation on June 30.

Drug Trade Appeal Fund.—The biennial meeting of the subscribers and trustees to the Drug Trade Appeal Fund was held in London recently, Mr. J. C. Hanbury in the chair. The biennial report indicated that the trustees had received no applications that fell within the rules and the accounts were adopted. New officers elected are:—Chairman, Mr. J. C. Hanbury; Treasurer, Mr. L. Johnson; and Secretary, Mr. A. Duckworth, c/o Association of British Pharmaceutical Industry, Tavistock House South, Tavistock Square, London, W.C.I.

Agreements Replaced by Pharmacopæia.—Because most of the provisions of the 1906 and 1929 Brussels Agreements for the Unification of Pharmacopæial Formulas for Potent Drugs have been rendered obsolete by the publication of the International Pharmacopæia, they have been terminated by a protocol signed in Geneva on May 20 by sixteen

nations including the United Kingdom. The protocol comes into force when it is certified to the United Nations secretary-general that ten States have become parties to the protocol.

Retail Trade in April.—Board of Trade figures show that independent chemists' average weekly sales in April were 12 per cent. higher than in March and 4 per cent. higher than in April 1951. In large-scale establishments sales were 9 per cent. lower and 11 per cent. higher respectively.

Society of Cosmetic Chemists.—At the fourth annual meeting of the Society of Cosmetic Chemists of Great Britain in London on June 13, the following officers were elected for 1952-53: Chairman, Dr. R. H. Marriott; Vice-chairman, F. V. Wells; Secretary, F. Hulley; Treasurer, E. Polan.

New Managing Director Honoured.—A dinner in honour of Mr. John W. Jamison, who has been appointed managing director of Aspro, Ltd. (see p. 7), was held in London on June 27. Mr. M. A. Nicholas (chairman), addressing the gathering, referred to the early history of Aspro when it was made in Australia on a single-punch machine and packed in bottles. Now the tablets were manufactured in eleven countries and sold in eighteen, They exported direct from stocks in Great Britain wherever possible.

Saccharin Tablet Standards.—The food standards committee of the Ministry of Food have reviewed the temporary standard for saccharin tablets contained in the Saccharin Order (S.I., 1949, No. 945). They recommend that the standard (together with the provisions for packaging and labelling) should be maintained while sugar remains in short supply and extended to cover other sweetening tablets containing saccharin. They do not think it necessary to apply the description "standard" to saccharin tablets. The recommendations are that a saccharin tablet or other sweetening tablet containing saccharin:

(a) shall contain not less than gr. 0.18 and not more than gr. 0.22 of saccharin, or the equivalent weight of soluble saccharin;

(b) may contain as excipient sodium bicarbonate with or without other suitable substances. The total amount of excipient shall not exceed four times the maximum quantity of saccharin;

(c) shall not contain more than 5 per cent. water insoluble matter, nor less bicarbonate than that required to render the saccharin completely soluble.

A period of one month will be allowed for

representations from any interested parties. Those wishing to make representations should write to the Secretary of the Committee, Great Westminster House, Horseferry Road, London, S.W.I. not later than July 26.

#### LOCAL NEWS

Hitchin Pharmaceutical Exhibition.— A pharmaceutical and student nurses' exhibition was held at the Lister Hospital, Hitchin, recently. The pharmaceutical section was prepared by the hospital's pharmaceutical department which founded the exhibition four years ago for the purpose of instructing the nursing staff in the preparation and dispensing of drugs.

Wisbech Chemists' Protest.—At a recent meeting at Wisbech of the Isle of Ely Executive Council, chemists complained that they were being presented with prescriptions after surgery hours without any indication of urgency. The chairman (Dr. G. H. Lucas) said that it would help if the doctors would inform patients that they would not get their prescriptions made up that night unless they were marked urgent. The Council agreed to seek the co-operation of the doctors along those lines.

Purchase Tax Resolution.—A meeting of the Ross and Cromarty Pharmaceutical Committee addressed by Dr. D. McCall (resident secretary, Scottish Department, Pharmaceutical Society), at Dingwall, Ross and Cromarty, on June 23 unanimously agreed to put the following proposal to the Pharmaceutical Standing Committee (Scotland): "In the event of purchase tax being removed from certain drugs, that three months should elapse, to enable chemists to get rid of existing stocks, before pricing is carried out at the tax-free rates, or alternatively, that chemists endorse the prescriptions 'tax paid' and thus recover the purchase tax."

"Levy" Slot Machines.—A slot machine, which for a shilling provides patients with tickets to be taken to the hospital pharmacy department and exchanged for made-up prescriptions, is being installed in the out - patients' department at Northampton General Hospital. The machine is expected to be working in about a month.—Nottingham General Hospital will collect the shilling charges for prescriptions by means of a stamp machine. The patient will put a

shilling in the machine, stick the stamp which will be issued on the prescription, and go to a dispensary where the stamp will be cancelled by a date stamp. The machine will obviate the employment of extra staff.

#### **SPORT**

Golf.—HULL CHEMISTS' ASSOCIATION and BRANCH, annual golf competition for Lofthouse cup at Hessle, Yorks, Golf Club, recently. Winner: Mr. G. Hindle (one down); runners-up: Mr. A. L. Spink and Mrs. T. McNicol. Tea was provided by Lofthouse & Saltmer, Ltd., manufacturing chemists, Hull.

ULSTER CHEMISTS' GOLFING ASSOCIATION and IRISH CHEMISTS' GOLFING SOCIETY, at Baltray Golf Club, co. Louth, on June 18, annual outing to play for B.D.H. cup. The Ulster team was captained by Mr. J. Jeffares. The Irish team was captained by Mr. S. O'Farrell and retained the trophy. After the match a replica cup was presented by Mr. W. P. Mullen (Irish representative of the British Drug Houses, Ltd.) to Mr. O'Farrell. There was also a bogey competition for prizes presented by Messrs. B.D.H. in which the winners were Dr. J. A. Eustace (14) and Mr. P. Foley (21) 5 up. Runners-up were Messrs. B. R. Smith (10) and J. A. Hurson (13) 5 up. Mr. O'Farrell, who presided at a supper held at the close of play, welcomed his Ulster colleagues and congratulated them on their play. The gathering expressed their best wishes to Mr. R. Guiler (B.D.H. representative in Northern Ireland) on his forthcoming retirement.

#### IRISH NEWS

Ulster Chemists' Association.—The office of the Ulster Chemists' Association will be closed on July 12 and 14.

Chemists Seek Extra Protection.—The Belfast Chamber of Trade, at a meeting on June 17, considered a letter from the Ulster Chemists' Association requesting the Chamber to take action on the increasing number of burglaries of chemists' shops, and decided to approach the Minister of Home Affairs on the general subject of crime prevention.

Society Represented at Inauguration.—The Pharmaceutical Society of Ireland was officially represented at a ceremony in Dublin on June 25 inaugurating Mr. Sean T. O'Kelly as President of the Irish Republic, by Mr. John P. Kissane (president of the Society). Together with Mrs. Kissane, Mr. P. A. Brady, T.D. (a member of the Society's Council), and Mrs. Brady, he was present at an official reception held at Dublin Castle on the evening of the inauguration.

Health Service Costs Discussed .- The

Northern Ireland General Health Services Board at a meeting on June 25 approved a recommendation of the Board's Medical Advisory Committee that the Board should again submit to the Ministry, as a basis for discussion on means of reducing pharmaceutical costs, the suggestion that prescribing under the Service should be restricted to substances considered to be essential. Dr. J. M. Hunter (the Medical Adviser) had referred at a meeting of the Committee to the prescribing of "less ethical proprietary preparations" and the incessant pressure on doctors by manufacturers, travellers and public. The Board decided to defer, for three months, consideration of the operation of the 1s. levy. Dr. R. E. Hadden said that doctors were being pressed to put as many items as they could on a single form. Mr. G. D. Stewart (secretary) said that there was nothing in the regulations about the number of items that could go on one form.

Medical Exhibition.—The British and Irish Medical Associations are holding an annual conference in Dublin, July 3-11. An exhibition in which leading manufacturers of Britain and of the United States are participating is being held conjointly. Over sixty pharmaceutical firms are represented. The following are included:—Sandoz Products, Ltd.; Ilford, Ltd.; General Radiological, Ltd.; Fannin & Co., Ltd.; Down Brother, Mayer & Phelps, "The Practitioner,"; Momand, Ltd.; Antigen, Ltd.; Vitamins, Ltd.; John Wyeth & Brother, Ltd.; Organon Laboratories, Ltd.; H. K. Lewis & Co., Ltd.; May & Baker, Ltd.; Butterworth & Co.; Oxford University Press, Crookes, Laboratories, Ltd.; Eds. F. Crookes Laboratories, Ltd.; Chas. F. Thackray, Ltd.; Medical Gases, Ltd.; Reckitt & Colman, Ltd.; Imperial Chemicals (Pharmaceuticals), Ltd.; Abbott Laboratories, Ltd.; Edward Taylor, Ltd.; Cyanamid Products, Ltd.; Allen & Hanburys, Ltd.; Burroughs Wellcome & Co.; Parke, Davis & Co., Ltd.; Ethicon Sutures, Ltd.; Evans Medical Supplies, Ltd.; The Distillers Company (Biochemicals), Ltd.; Kylon, Ltd.; Sharp & Dohme, Ltd.; Ciba Laboratories, Ltd., The British Drug Houses, Ltd.; Energen Foods Co., Ltd.; Boileau & Boyd, Ltd.; British Schering, Ltd.; Roche Products, Ltd.; Watson & Sons, Ltd.; Paines & Byrne, Ltd.; Glaxo Laboratories, Ltd.; London Hospital (Ligature Department), Ltd.; Menley & James, Ltd.; S. H. Campt & Co.: T. J. Smith & Ltd.; S. H. Campt & Co.; T. J. Smith & Nephew, Ltd.; Boots, Ltd.; Baillière, Tindall & Cox; and Bayer Products, Ltd.

#### LOCAL OFFICERS

Officers of Branches of the Pharmaceutical Society and of other pharmaceutical organisations elected recently include:—

Leeds Branch.—Chairman, Mr. F. Mitchell; Chairman-elect, Mr. F. J. Carr; Treasurer, Mr. P. Dobson; Secretary, Mr. J. Schofield, 400 Burley Hill, Leeds.

Cornish Branch, N.P.U. — Chairman, Mr. R. W. Wakeford; Vice-chairman, Mr. S. E. Wilkes; Secretary. Mr. W. H. Calvert, 2 Honey Street, Bodmin; and Treasurer, Mr. C. J. Hocking.

West Ham Association. — President, Mr. Joseph Reed; Vice-presidents, Messrs. D. C. Evans and R. J. Maxey; Treasurer, Miss J. Cloud; Secretary, Mr. W. H. Cloud, 45 Longbridge Road, Barking, Essex.

Blackpool Branch. — Chairman, Mr. J. C. Shenton; Vice-chairman, Mr. J. W. Blundell; Treasurer. Mr. F. J. Carter; Secretary, Mr. J. W. Croker, 29 Glastonbury Avenue, Blackpool; and Assistant Secretary, Mr. M. W. J. Limb.

Hounslow Branch. — President, Miss E. M. Bristowe; Vice-president, Mr. J. L. L. Heppenstall; Treasurer, Mr. W. Waterman; Social Secretary, Miss A. Williams; Secretary, Mr. S. G. Davis, 2 Almorah Road, Heston, Middlesex (telephone: Hounslow 5224).

Derby Branch.—Chairman, Mr. W. J. I. Lebeter; Vice-chairman, Mr. J. A. C. Brims; Treasurer, Mr. T. H. H. Prime; Secretary, Mr. K. Green, 28 Fairway Crescent, Allestree, Derby; and Auditor, Mr. F. Orrell.

East Metropolitan Branch.—Chairman, Mr. J. Reed; Vice-chairman, Messrs. T. W. Hill and W. Miles; and Secretary and Treasurer, Mr. S. Robinson, 21 Broadhurst Avenue, Ilford, Essex (Telephone: Seven Kings 7449).

Swansea and West Glamorgan Branch.
—Chairman, Mr. W. Pierce; Vice-chairman, Mr. D. F. Jones; Treasurer, Mr. W. S. Francis; Assistant Secretary, Mr. G. G. Davies; and Secretary, Mr. G. T. M. David, 1 Cradock Street, Swansea.

Leicestershire and Rutland Branch.— Chairman, Mr. C. Sampson; Vice-chairman, Miss G. M. Shirley; Secretary and Treasurer, Miss M. H. Perkins, 2 Tennyson Street, St. James Road, Leicester; Social Secretary, Mrs. E. M. Carter; and Publicity Officer, Mrs. J. M. Gilbert.

#### MARRIAGES

RICHARDSON—McDowell. — Recently, Sidney George Richardson, M.P.S.N.I., Deansbridge, Armagh, Northern Ireland, to Audrey May McDowell, Rathmore, Ballyholme Esplanade, Bangor, co. Down.

Golden Wedding.—Wells—Warner.—At Holy Trinity Church, Nottingham, on June 12, 1902, John J. Wells to Mary E. B. Warner. Present address: 44 George Street, Mablethorpe, Lincs. Mr. Wells qualified as a chemist and druggist in 1896.

#### **DEATHS**

ADAMS. — On June 24, Mr. Raymond Aubrey Simpson Adams (a director of R. A. S. Adams, Ltd., chemists, Kettering), 103 Northampton Road, Kettering, aged seventy.

Anderson.—On June 24, Mr. Robert Anderson, 15 St. Gabriels Avenue, Sunderland, aged eighty-five. Mr. Anderson qualified as a chemist and druggist in 1893.

Bremner, M.P.S., Cruden Pharmacy, Cruden Bay, Aberdeens, aged eighty. Mr. Bremner had been in business at Cruden Bay for fifty-four years, retiring some years ago when his son, Mr. Harold A. Bremner, M.P.S., took over the pharmacy. He had had a long illness.

FARQUHAR. — Suddenly while on holi day at Ayr, on June 27, Mr. James Marshall Farquhar, M.P.S., 15 Princes Street Perth, aged sixty-five. He is survived by his widow, two sons and two daughters.

Kettlewell.—Suddenly, at his home Lincroft, 54 Shipton Road, York, on June 23, Mr. Robert Cecil Kettlewell (man aging director of Bleasdale, Ltd., York). Hentered the service of Messrs. Bleasdal in 1906, and was appointed secretary of the company in 1924, and its managing director in 1940. He was an alderman of York, his native city. During the 1914-1 war he served in the Army in the Middle East.

Purdy.—On May 30, Mr. Ernest Gibson Purdy, M.P.S., Fairholm, 1 Dennistea Crescent, Headingley, Leeds, 6, age seventy-two.

WILKIE.—On May 25, Mr. Robert Wiliam Wilkie, M.P.S., 157 Carrick Know Drive, Edinburgh. Mr. Wilkie qualifie in 1931.

#### TOPICAL REFLECTIONS

#### The Annual Special Issue

About thirty years ago I was shown a letter that had arrived at your office. Its writer paid a tribute to the Annual Special Issue of that year, and used a phrase to this effect: "How do you do it?" The question came to mind as I looked through this year's successor to that publication. It might be thought that the material available to a newspaper covering the drug and chemical industries and pharmacy is very limited. But no. Once more you have cast your net widely and have brought a varied catch to harbour. The delightful article by Mr. E. Saville Peck (pp. 890-95) on bell-metal mortars is a case in point. Descriptions of mortars appeared in your columns in 1904 and 1926, and anyone wishing to look up the types could consult either or both. The subject, so far as bell-metal mortars are concerned, now recurs as fresh as ever in this account of Mr. Peck's remarkable collection. On pp. 900-02 the treasures of another collector, Mr. A. J. Fairlee, are illustrated and briefly described. These curios afford another example of what can be done by patient and continued watching for opportunities for preserving relics otherwise destined to oblivion. Present-day pharmacists are the successors of apothecaries and others who used such apparatus when it was new; and unless the past has its due place in thought and recognition, pharmacy may one day find itself without a cultural element.

#### New and Old

In mentioning collections of antiques, I am not forgetting that much that is essentially of our own period appears in that same issue. On the scientific side there is an important article on influenza vaccines (pp. 879-83); and Dr. K. D. Keele's "Leonardo as Anatomist" (pp. 922-24) throws light on one facet of that manysided genius. Manufacturing processes are exemplified by "Opium and Opiates," describing the extraction of active principles in the factory of T. & H. Smith, Ltd. (pp. 883-86); the output of Boots Pure Drug Co., Ltd. (pp. 910-13); and the knitting of surgical hosiery at J. H. Haywood, Ltd. (pp. 914-15). The descriptions of shop layout and equipment (pp. 867-74) are, as usual, of practical value. The drawing of the old pharmacy at Ulverston (p. 887) makes a picturesque contrast, as does the reproduction of a nineteenth-century trade card (p. 924). Importation and storage of essential oils are made actualities to many who live far from dockland (pp. 896-99). With that article may be linked the details of the peppermint and menthol industries of Brazil (pp. 934-36). An exclusive medical service, that of London Transport, is the subject of the text and pictures on pp. 875-78. This year's Conference venue, Nottingham, receives an excellent description on pp. 903-09. Quaint and humorous experiences abound in "Odd but Regular" (pp. 925-27) and "A Jolly Sort of Existence" (pp. 928-33). The historical side of pharmacy is recognised by an account (pp. 916-17) of the passing of the Pharmacy Act of 1852, a significant "follow up" of the Pharmaceutical Society's Charter of 1843.

#### Matthiolus

The Commentarii Matthiolus on the herbal of Dioscorides are the subject of a general description, with illustrations, in Dr. Agnes Arber's "Herbals: Their Origin and Evolution"; but there was need for the systematic survey given in the article on pp. 918-21, which has made the contents of this famous volume more familiar to Dr. Arber describes its immediate success as phenomenal, and cites a statement that 32,000 copies of early editions were sold. Some other Italian authors of herbals are considered by this botanist to have given better descriptions of plants than Matthiolus did. Yet he was helped by the physicians Ghini and Quakelbeer. In the course of his career he wrote a treatise on syphilis, and in 1554 he was appointed a physician to Maximilian II. The tribute of Dioscorides in the introduction to Book VI indicates that Matthiolus was a good Latinist and probably a student of Cicero. In a sixteenth-century author that might be taken for granted but for the fact that some Latin translations from Arabic medical works have been censured -by Dr. Arturo Castiglioni, I think-as inadequate. Like other botanists and physicians who could be named, this author was a vigorous controversialist: he is reported to have "hurled the most abusive language at those who ventured to criticise him." Nevertheless, his principal book is a monument on research, instanced by his references to authorities who wrote after the time of Dioscorides. One reads with a smile his criticism of Avicenna, especially as he is criticised in his turn by Bautrin for an error about the knots in the tails of scorpions. Xrayser

#### **PERSONALITIES**

Mr. Davis Factor (chairman, Max Factor & Co., Hollywood), has been elected



Mr. Davis Factor

president of the United States Toilet Goods Association. Mr. Factor was vice-president of the Association for the four years preceding his promotion to the presidency.

MR. D. R. M. SMALL has relinquished his appointment as secretary of the Selfservice Development Association

because of pressure of other business commitments.

MR. CHARLES RATNAGE (foreman of the comb-making department, Halex, Ltd., Highams Park) retired on July 4 after forty-nine years' service with the company. Mr. Ratnage has been concerned with the manufacture of plastic articles from the introduction of xylonite, vulcanite and casein plastics up to the present day. He has four brothers who are employees of the company (see p. 8). Two other brothers and four sisters have retired from the company.

Mr. Julius Rothermel Watson, M.P.S., who was recently elected chairman



of the Dartford Branch of the Pharm aceutical Society, has been for the past five years a manager Timothy for Whites & Taylors, Ltd., at Dartford. Mr. Watson was previously employed at branches of the same company Havant at Grantham. He was educated at Wellingborough

J. H. Payne, Thrapston, Northants. After further experience in Loughborough Mr. Watson qualified as a chemist and druggist from the Leicester College of Technology in 1937.

MR. GRANVILLE SHAW, JUN. (son of Mr. Granville Shaw, Ph.C., a member of the Pharmaceutical Society's Council, and chairman of the British Pharmaceutical Conference local committee) has qualified as a doctor.

#### THE WEEK IN PARLIAMENT

MR. A. W. J. Lewis asked the Home Secretary on June 26 the reasons submitted by the Poisons Board for their advice against the introduction of legislation to oblige manufacturers of dangerous drugs and poisons to have an antidote printed in label form on containers. The Home Secretary (Sir David Maxwell Fyfe) replied, however, that the proceedings of the Poisons Board were confidential.

#### Prescription Levy

Mr. R. Ewart asked the Minister of Health on June 26 if he would make provision to exempt chronic sick patients who required weekly supplies of dangerous drugs from the prescription charge.

MR. MACLEOD: No. When such drugs are prescribed on a weekly basis they are not usually required for periods so long as to make the ordinary provision for relief of financial hardship inappropriate.

Mr. IAIN MACLEOD told Mr. S. HAST-INGS on June 26 that no arrangements had been made for a refund to be made at hospitals when the cost of medicine supplied to a patient was less than 1s.

#### Rota in Barking

MR. S. HASTINGS asked the Minister of Health on June 26 what facilities were available to the people of Barking to have urgent prescriptions dispensed after the usual chemists' closing time. MR. IAIN MACLEOD said that under a rota arrangement, two chemists in the district remained open each day for an extra hour. A doctor's terms of service required him to supply drugs, etc., needed for immediate treatment, or before a supply could otherwise be obtained.

#### **COMING EVENTS**

Sunday, July 6

LONDON CHEMISTS' GOLFING SOCIETY, West Surrey Golf Club (telephone: Godalming 278). Fixture. Ladies invited.

#### Wednesday, July 9

SWANSEA BRANCH, PHARMACEUTICAL SOCIETY, Mackworth Hotel, Swansea, at 8 p.m. Mr. W. R. Roberts (chief inspector, Pharmaceutical Society) on "Poison Law."

#### COMPANY NEWS

BOOTS CASH CHEMISTS (NORTHERN), LTD.—Net profit was £62,621 (£50,615).

R. J. REUTER Co., LTD. — The entire shareholding of the company was acquired by Scott & Bowne, Ltd., on July 1.

BOOTS CASH CHEMISTS (LANCASHIRE), LTD.—Profit was £86,541 (against

£74,135).

BOOTS CASH CHEMISTS (SOUTHERN), LTD.—Net profit was £142,356 (against £102,852).

BOOTS CASH CHEMISTS (WESTERN), Ltd.—Net profit was £137,093 (against £123,766).

HODDERS, LTD.—Subject to audit, consolidated net profit to March 31, before tax, is £52,930. Taxation, £34,890.

BLEASDALE, LTD. — Mr. Reginald Monks, Ph.C., has been appointed managing director following the death of Mr. R. C. Kettlewell.

Aspro, Ltd. — Mr. John W. Jamison has been appointed managing director in succession to Mr. Evan T. T. McColl, who has retired owing to ill-health.

Boots CASH CHEMISTS (Eastern), LTD.—Net profit was £176,727 (against £160,762). It is proposed to capitalise £160,000 of the undivided profits and issue a two-for-one scrip bonus in C preference to existing holders.

BOOTS PURE DRUG Co., LTD.—Current assets for year ended March 31 totalled £11,778,567 (an increase of £1,963,708 on the previous year). Stocks rose from £5,983,374 to £7,443,932. For preliminary statement on profits see C.  $\mathcal{E}$  D., May 31, p. 732.

GRIFFITHS HUGHES PROPRIETARIES, LTD. -A dividend of 5 per cent, on ordinary stock for the year ended March 31 is recommended (against  $7\frac{1}{2}$  per cent. in the previous year). Consolidated profit was £248,050 (£349,470) and tax, £164,962 (£235,821). Mr. C. B. Green has been appointed chairman and Mr. O. P. Marland, M.A. (Cantab), M.B.A. (Harvard), deputy chairman of the company.

#### Voluntary Liquidations

Monsol, Ltd., Station Street, Dudley ort, Tipton, Staffs. Liquidator: Mr. S. V. Lancaster, 11 Waterloo Street. Birmingham, 2 [see Melanoid, Ltd., opposite].

STANLEY R. EVANS, LTD., dispensing chemists, 221 Station Road, Knowle, Warwicks. Liquidator: Mr. K. J. Milligan, 11 Waterloo Street, Birmingham.

#### New Companies

ESPLANADE PHARMACY, LTD. (P.C.).— Registered in Dublin. Capital £1,000. Robert J. Pattison, 34 Haddington Road, Dublin, and Pauline M. Clarke, subscri-bers. First directors are not named.

James & E. Morris, Ltd. (P.C.).— Capital £3,000. To acquire the business of a wholesale confectioner and chemists' sundriesman now carried on by James E. Morris at 2 Hotwell Road, Bristol. James E. Morris and Vera E. Morris, directors.

S. G. R. Coles (Chemists), Ltd. (P.C.). —Capital £2,500. To carry on the business of wholesale or retail chemists, etc. Frederick P. Ingham, Norman D. Coles, M.P.S., and Elsie D. Coles, directors. R.O.: 62 High Street, Irthlingborough, Northants.

Wilson (Belfast), Ltd. (P.C.).—Registered in Belfast. Capital £2,000. To carry on the business of wholesale and retail chemists, druggists, etc. Patrick John K. Wilson. Liam Wilson, James J. Wilson and Henry G. Wilson, directors. R.O.: 2 Wellington Place, Belfast.

Donald Leaver (Manchester), Ltd. (P.C.).—Capital £500. To carry on the business of manufacturers of and dealers in machinery for the chemical and allied trades, etc. Donald T. M. Leaver (chairman), Sydney P. Richfield and Ronald C. Veitch-Clark, directors. R.O.: 13 Parsonage Chambers, 29 Blackfriars Street, Manchester, 3.

#### **BUSINESS CHANGES**

THE new telephone number of the Pharmaceutical Society of Ireland is Dublin 69390.

Melanoid, Ltd., Dudley Port, Tipton, Staffs, who were an associate of Monsol, Ltd. (now in voluntary liquidation), are continuing the manufacture and distribu-tion of certain Monsol products.

IMPERIAL CHEMICAL INDUSTRIES, LTD., have moved their central publicity department to the North Block (ground floor) of Thames House, Millbank, London, S.W.1. (Telephone: Victoria 4486). Written communications should be addressed to Imperial Chemical House, Millbank, London, S.W.1.





Left: Mr. Charles Ratnage, and right, Mr. Charles with his brothers, Messrs. Arthur, George, Ernest and Walter Ratnage in the canteen of Halex, Ltd. (see p. 6).

#### NEWS IN PICTURES



Evans cup being presented by the vice-captain of Woolton Golf Club to Mr. N. P. Vanderbilt (a director of E. M. Murphy & Co., Ltd.), winner at recent meeting of the Liverpool Chemists' Golfing Society, at Woolton Golf Club, Liverpool, recently.



Mr. H. Ashley Mason (chairman, Evans Medical Supplies (Ireland), Ltd.), presenting, in Dublin recently, a framed long-service certificate C. & D., June 21, p. 829), to Mr. Joseph S. White.





"JOINT EFFORT" STARTS A NEW FACTORY.—Directors, managers and staff members of Vitamins, Ltd., joined forces recently to dig the first trench at the company's new ten-acre factory site at Crawley, Sussex. At luncheon afterwards, Mr. H. C. H. Graves (chairman), said that that joint effort symbolised the spirit of co-operation in which their enterprise had been developed. The first sod, he said, had been cut by Mr. J. H. Wrentmore, who had been associated with the Vitamins group of companies since its foundation in 1921. The photographs of that day's ceremony would thus provide a link at any rate until 2050, the duration of their 99-year lease, with their foundation in 1921.

#### PROPOSED POISONS AMENDMENTS

THE Home Office have announced that it is proposed to make the following changes in the Poisons List and Rules:-

I. DINITROCRESOLS

(a) Part II of the Poisons List and Second Schedule to the Poisons Rules.—The entries will be amended to: "Dinitrocresols, their compounds

with a metal or a base."

(b) First Schedule to the Poisons Rules.—The words "except agricultural or horticultural insecticides or fungicides " will be deleted and the entry amended to "Dinitrocresols, their compounds with a metal or a base except winter washes containing not more than the equivalent of 5 per cent. of dinitrocresols."

(c) Group II of the Third Schedule.-Entry in column one will be amended to: "Dinitrocresols, their compounds with a metal or a base" and the entry in column two to: "Substances being neither preparations for use in the treatment of human ailments nor preparations for use in agri-

culture or horticulture."

(d) Fourth Schedule.-Entry will be amended to: "Dinitrocresols, their compounds with a metal or a base except preparations for use in agriculture

or horticulture.'

(e) Fifth Schedule.—Entry in column 1 will be amended to: "Dinitrocresols, their compounds with a metal or a base," and the entry in column two to: "Preparations for use in agriculture or horticulture."

(f) Seventh Schedule.—Entry in paragraph six will be amended to: "Dinitrocresols, their compounds with a metal or a base except preparations for the treatment of human ailments and except winter washes containing not more than the equivalent of 5 per cent. of dinitrocresols."

(g) Eighth Schedule.—There will be added: "Dinitrocresols, their compounds with a metal or a base when contained in preparation for use in agriculture or horticulture."

(h) Rule 14(2) (b).—There will be added: "Dinitrocresols, their compounds with a metal or a base except winter washes containing not more than the equivalent of 5 per cent. of dinitro-

2. 2-sec-BUTYL-4: 6-DINITROPHENOL and 2-sec-AMYL-4:6-DINITROPHENOL will be added to Part II of the Poisons List and included as follows in the Poisons Rules: (a) In the First Schedule. (b) In column one of group II of the Third Schedule with an entry in column two: "Substances other than preparations for use in agriculture or horticulture.' (c) In column one of the Firth Schedule with an entry in column two: "Preparations for use in agriculture or horticulture." (d) In paragraph (6) of the Seventh Schedule. (e) In the Eighth Schedule. (f) In Rule 14(2) (b). 3. PHOSPHORUS COMPOUNDS

(a) The following will be added to the list of phosphorus compounds in Part II of the Poisons List: - Bis-isopropylaminofluorophosphine oxide, dimethylaminofluorophosphine, oxide, paranitro-4-methylhydroxy phenyl-diethyl phosphate, coumarin - diethylthiophosphate, ethyl - paranitrophenylbenzene-thiophosphonate, diethyl-thiophosphate of ethylmercapto-ethanol, triphosphoric pentadimethylamide.

(b) The phosphorus compounds already included in Part II of the Poisons List together with those additions will be added to Schedules I and VIII.

(c) The above additions will be added to those already included in column one of group II of the Third Schedule and the entry in column two will be amended to read: "substances other than preparations for use in agriculture or horticulture."

(d) The complete list of phosphorus compounds will be added to column one of the Fifth Schedule with an entry in column two: "Preparations for

use in agriculture or horticulture."

(e) The list of phosphorus compounds (excepting hexaethyl tetraphosphate and tetraethyl pyrophosphate) will be added to Rule 14(2) (b).

(f) Paragraph 6 of the Seventh Schedule will

be amended to include above additions.

4. GALLAMINE TRIIODIDE.—The entry gallamine in part I of the Poisons List and in the First and Fourth Schedule will be amended to "Gallamine; its salts; its quaternary compounds."

5. Alkaloids.—The general heading "alkaloids" in Part I of the Poisons List and in the First Schedule will be amended to read: "Alkaloids, the following, their salts simple or complex, their quaternary compounds."

6. Atropine methonitrate.—To the entry atropine in the First Schedule there will be added: " except substances containing not more than I per

cent. of atropine methonitrate."

7. AMIDOPYRINE SULPHONATE.—The entry amidopyrine in Part I of the Poisons List and in the First and Fourth Schedules to the Poisons Rules will be amended to read: "Amidopyrine, amidopyrine sulphonates, their salts."

8. TETRAETHYLTHIURAM DISULPHIDE (disulfiram).— Disulfiram will be added to Part I of the Poisons List and to the First and Fourth Schedules.

9 PHENYLACETYLCARBAMIDE (phenylacetylurea).— Phenylacetylurea will be added to Part I of the Poisons List and to the First and Fourth Schedules. 10. DANGEROUS DRUGS.

The following Dangerous Drugs will be added to Part I of the Poisons List and to the First Schedule: acetyldihydrocodeine, dihydrocodeine, alphameprodine, betameprodine, and methorphinan.

11. Exemption from control.

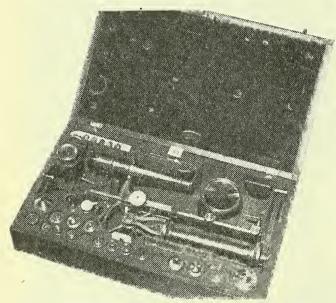
To the list of articles in Group I of the Third Schedule there will be added: fluorescent lamps. Phenyl mercuric salts will be added to column one of Group II of the Third Schedule with an entry in column two: "toilet, cosmetic and therapeutic preparations containing not more than o.or per cent. of phenyl mercuric salts as a preservative." Paranitrophenol will be added to column one of Group II of the Third Schedule with an entry in column two: "preparations for use in agriculture or horticulture containing not more than 0.5 per cent. of paranitrophenol as a pre-Oxycinchoninic acid will be added to column one of Group II of the Third Schedule with an entry in column two: "preparations, intended for external application only, containing not more than 3 per cent. of oxycinchoninic acid. 12. RULE 23 (1) (b).—This Rule will be amended to permit the packing of medicines made up ready to be taken for the internal treatment of animal ailments in containers not vertically fluted.

#### LONDON SEES THE HUNTERIAN COLLECTION

EXHIBITS bequeathed to the University of Glasgow by the famous eighteenth-century anatomist and obstetrician, Dr. William Hunter, are on view in England for the first time as a group in 150 years, by courtesy of the University authorities. They are on exhibition (admission free) at the Iveagh Bequest, Kenwood, London, N.W.3, until the end of August.

#### Appointed to Royal Academy

From Dr. Hunter's appointment in 1768 as first professor of anatomy to the Royal Academy, he "fell among artists," to use the words of Lord Radcliffe, who opened the exhibition on June 10 in the presence of Sir Hector Hetherington (Principal and



Microscope used by Hunter in anatomical and scientific research.

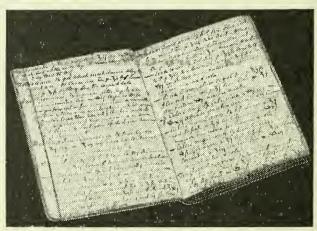
Vice-chancellor, Glasgow University). Hunter's collection, which prior to that appointment had had medical and scientific associations (an example is the portrait by Wilhelm von Bemmel of Dr. William Harvey, discoverer in 1628 of the circulation of the blood), widened in scope to include landscapes, coins, books, and manuscripts.

The total value of the exhibits is said to exceed £100,000. They include many well - known paintings, for example, Rubens' "Head of an Old Man." Among the portraits are a number of Dr. Hunter himself, one of them the portrait used on the certificate awarded by the former Hunter's School of Anatomy, Great Windmill Street, London—a commemorative



Allan Ramsay's Portrait of Hunter.
[Photo, University of Glasgow.

plaque to which was unveiled on the Lyric theatre (site of the school) on June 7. In his "Medical Commentaries, Part I," London, 1762, which is subtitled: "containing a plain and direct answer to Professor Monro, Jun. [one of his former teachers] interspersed with remarks on the structure, functions and diseases of several parts of the human body," Hunter showed himself a controversialist as well as anatomist. A pharmaceutical pocket - book he used is open at pages showing in cramped writing formulas for many contemporary preparations, including mucilago sem. cy-



A pharmaceutical pocket-book used by Hunter.

doniorum and tinctura rosarum. The microscope used by Hunter in anatomical and scientific research, and a wax model of the human body, representing the

muscles are also shown.

Among books exhibited is "The Anatomy of the Human Gravid Uterus, Exhibited in Figures," described as "Hunter's greatest work and one of the finest anatomical atlases ever produced." It contains thirty-four plates, and is shown open at plate twelve, which was engraved under the direction of Rymsdyk, and gives "a view of the womb and vagina fully opened on

the back part to show the situation of the child and of the lower part of the placenta at the inside of the mouth of the womb, under the child's head, and detached from the womb; the occasion of fatal hæmorrhage." The beautiful printing of the text, in Latin and English, occupied the last months of the life of John Baskerville, outstanding typographer of his day.

Another of Dr. Hunter's books on show is his "Two Introductory Lectures" (delivered in his last anatomical course in

Windmill Street in 1784).

#### IRISH RESTRICTIVE PRACTICES BILL

THE text of an Irish Restrictive Trade Practices Bill, 1952, issued in Dublin recently, sets out the machinery under which the Irish Minister for Industry and Commerce proposes to control what may be deemed to be undesirable trade practices. The Bill provides for the establishment of a Fair Trade Commission to prepare and publish rules on fair trading conditions for the and distribution of particular supply Provision is made to allow any goods. person to make representations against proposed rules. On their own initiative, or at the request of the Minister for Industry and Commerce, the Commission could inquire into the supply and distri-bution of any kind of goods. The Commission in its report to the Minister is to (a) describe the conditions which obtain in regard to supply or distribution; (b) state whether and, if so, how those conditions prevent or restrict competition or restrain trade or involve resale price maintenance; (c) state whether, in their opinion, any such interference with competition or trade is unfair or operates against the public interest; and (d) give the reasons for their conclusions. Having considered a report of the Commission the Minister under Section 8 would be empowered to make an Order concerning goods to:-

(a) Prohibit specified arrangements or agree-

ments.

(b) Prohibit the witholding of supplies from any specified class or persons.

(c) Prohibit the giving of specified preferences

for supply or for the placing of orders.

(d) Prohibit the imposition of specified conditions in regard to the supply or distribution.

(e) Make such provision as the Minister thinks necessary to ensure the equitable treatment of all persons in regard to supply or distribution and the avoidance of unfair practices

the avoidance of unfair practices.
(f) Make such other provision concerning the

supply and distribution as he thinks fit.

Sub-section (3) of section 8 makes the proviso that an order under the section shall not have effect unless it is confirmed by Act of the Oireachtas (Legislature). Section 9 requires the Commission to keep under review the general effect on the public interest of restrictive practices and the operation of Orders under Section 8 and to submit to the Minister a report on any such matter and their recommendations as to what action should be taken. Section 12 provides that persons or directors of a body corporate, or unincorporated, can be made amenable for offences under the Act. On summary conviction a person found guilty of an offence under the Act can be made liable to a fine not exceeding £500, to a term of imprisonment not exceeding twelve months, or to both. A person convicted of an indictable offence under the Act is made liable to a fine not exceeding £5,000 or at the discretion of the Court penal servitude for not exceeding ten years.

The text of the Bill has been circulated to members of the committee of the Irish Drug Association.

#### I.D.A. Statement

Mr. G. C. O'Neill (president, Irish Drug Association) has issued a statement on the Bill. He says that he has had the Bill under consideration since the text was issued, and that it would be considered fully by the committee of the Association. Chemists could be assured that their interests would be protected. From a reading of the text it was impossible to say how the Bill would operate in relation to pharmacy. "Much depends upon the personnel of the Commission, and their approach to the matters that will come before them," he says.

#### LEGAL REPORTS

Injunction Claim Dismissed.—A claim by Goya, Ltd., 161 New Bond Street, London, W.1, for an injunction restraining Gala of London, Ltd., Burlington Arcade, London, W.1, from alleged infingement of trademark or possing of the control of the con fringement of trademark or passing-off of products in connection with perfume, was dismissed, with costs, by Mr. Justice Lloyd-Jacob in the Chancery Division on June 30. The plaintiffs complained that since the defendants had commenced manufacture of perfume, the similarity of names led to confusion. The allegation denied by the defendants, who claimed that they were entitled to use the name Gala. Giving judgment, the judge said that the business of both parties was successful and expanding. plaintiffs had manufactured perfume in the name of Goya since 1937, later add-ing other products, and at present be-tween one-half and one-third of their turnover was from goods other than perfume. The defendants had used the name Gala in association with "Outdoor Girl" since 1938, and independently since 1941 for cosmetics, including lipstick, powder, cream, rouge and mascara. Both sides tried to secure registration of their brand names for the widest possible classifica-tion, but discovered that, by reason of their choice, distinctiveness in actual use required to be established. Concurrent use of the two marks upon comparable classes of goods provided a reasonable test for the likelihood of confusion or deception, and the question of lipsticks could be selected for examination. Between 1945 and 1948 the defendants were marketing lipsticks in decorated boxes, and up to 1946 or 1947 the plaintiffs also were marketing lipsticks in lettered boxes. The plaintiffs decided to introduce decorated boxes, but these were not distributed until about 1950 and, even if there were a similarity to the boxes popularised by the defendants, there could not have been confusion before that date. In 1948 the defendants introduced a novel type of lipstick in association with a special technique in application called Lipline. The plaintiffs decided to introduce a product to fulfil the same purpose by marketing a com-Thick-and-thin lipstick. manner of use was emphasised in their advertising and, as was perhaps inevitable, its representation included general features of the defendants' advertising in a form not readily distinguishable. Referring to the evidence in the

case, his lordship said that instances of lack of reasonable care or negligence, or even of perversity, appeared to have given rise to mistakes, but it had not been established that they could fairly be attributed to the resemblance between the two names. The most cogent evidence was that of the lady demonstrators whose duties brought them regularly into touch with the public. It appeared that the customer was not in any doubt as to her requirements being identifiable by the name, whether it be Gala or Goya, nor disposed to accept a product marked with the other name, but merely that she addressed her inquiry to the inappropriate saleswoman. Taking the evidence as a whole, it did not establish that, as a matter of experience, the name Gala so nearly resembled Goya as to make it likely to deceive or cause confusion.

Pharmacy Act Fines.—Solihull magi-strates recently imposed fines totalling £8 4s. on Lungora Medical Supplies, Ltd., 192 Southgate Road, London, who were charged with selling a preparation containing opium while not authorised poison sellers and for using the description "manufacturing chemists" while not entitled to do so. The company pleaded guilty. For the prosecution it was stated that the company supplied a product known as "red slumber drops," which contained a small amount of opium. "We also allege," said prosecuting solicitor, "that the company has described itself as manufacturing chemists, which description is calculated to surgest that someone in that business is qualified to sell drugs. The defence argued that the prescription of the drops was legal. The company was formed by a Mr. Ifor Richards, a life member of the Pharmaceutical Society. The company's registered office was at the London address, but at no time had the drops been dispensed there. The major requirement of the Poisons Act had been fulfilled, because Mr. Richards was a "qualified pharmacist." At no time had the public been jeopardised, and no risk had been run.—At Huddersfield magistrates' court, recently, Edith Ellis, a stall holder at Lower Market Hall, Huddersfield, pleaded guilty through her solicitor to selling a poison (codeine in Veganin tablets) when she was not an authorised person, and to selling a poison in a container not labelled in the prescribed manner. She was fined £5 in each case.

#### NATIONAL PHARMACEUTICAL UNION

MEETINGS of the executive committee of the National Pharmaceutical Union and of the directors of the Chemists' Defence Association, Ltd., were held in London recently, Mr. W. Hudson (chairman) presiding.

THE CHAIRMAN referred to the sudden' death of Mr. T. Noel Dixon on Saturday

June 14.

MR. Hudson congratulated Alderman W. J. Tristram on his election as president of the Pharmaceutical Society and Mr. T. Heseltine upon his election as vice-president. It was the first occasion upon which both those officers of the Society were at the same time members of the N.P.U. executive.

#### Control of Manpower

THE SECRETARY reported that he and the chairman had attended a meeting at the Ministry of Health on June 13 to discuss a "skeleton plan" for the control of pharmaceutical manpower, when Miss E. M. R. Russell-Smith (under-secretary, Ministry of Health) presided. Representatives of the Ministry of Labour, the Service Departments, the Pharmaceutical Society, the N.P.U., the Company Chemists' Association, the Society of Apothecaries and the Co-operative Congress Parliamentary Committee were present. The official report of the proceedings was not available and in the meantime the discussions which had taken place must be regarded as confidential. The secretary submitted a report upon the progress of the Disposal of Uncollected Goods Bill through the House and stated that there was every indication that the Bill would become an Act within the next few months.

The local organisation officer submitted his report upon work which had been undertaken since the last meeting of the Executive Committee and speakers were appointed to address meetings of N.P.U. branches and local associations of phar-

The report of the Central National Health Service Committee stated that the committee had made representations to the Ministry of Health about the difficulty experienced by contractors as old age pensioners and parents of children were under the impression that they were exempt from or automatically entitled to recover the prescription charges. The Ministry subsequently arranged for an announcement

to be made through the Press and B.B.C. giving the facts on the question. A suggestion that a perforated slip to serve as a receipt should be attached to the foot of EC10 forms was not supported by the committee on the grounds that it was undesirable and impracticable. A small number of cases had arisen where patients had asked for receipts several days after the prescriptions had been dispensed. committee's views on the practicability of laying down some time limit had been sought. The committee felt that the question of giving a receipt after the transaction was completed should be left to the contractor's discretion. If requests were met for receipts to replace EC57 receipts stated to have been lost the committee recommended that the replacement form should be marked "duplicate."

The Committee had considered a claim for increased remuneration and decisions had been taken on certain necessary steps to be taken before its submission to the management side of the Whitley council. The basic prices to be used for certain of the new National Formulary tablets dispensed on June prescriptions only had been agreed with the Ministry. Further consideration was given to the bases to be used for prescriptions for July onwards in the light of evidence on the frequency with which sizes are actually used in practice. Proposals had been received from the Ministry that for certain proprietary medicines payment should be based on particular sizes. The Ministry indicated that the list was the first of a series which would be sent to the Central N.H.S. Committee. The committee decided to inform the Ministry that full consideration of the proposals should be deferred until the claim for increased N.H.S. remuneration had been settled.

#### Pricing of Appliances

As a result of complications arising in connection with charges on Elastic Hosiery and the arrangements for advanced pricing laid down in ECN62, the Ministry proposed to notify contractors that scripts for elastic hosiery and trusses would not, in future, be accepted for advanced pricing. Where a contractor handled many such appliances he should enter into separate contract with the Executive Council for those supplies.

(To be concluded)

#### TRADE NOTES

Chlorophylls Available.—Croda, Ltd., Croda House, Snaith, Goole, Yorks, are the sole selling agents in Great Britain for chlorophylls A/125, L/27, L/120, and D special made by Esrolko, Ltd., Dubend-orf-Zurich, Switzerland.

Press Campaign.—Details are given on another page of a Press campaign to be undertaken by Ashe Laboratories, Leatherhead, Surrey, for Amplex chlorophyll deodorant tablets.

Range of Rubber Products.—On another page details are given of the range of Suba-Seal pharmaceutical rubber products manufactured by William Freeman & Co., Ltd., Suba-Seal Works, Peel Street, Barnsley, Yorks. The products withstand repeated sterilisation where necessary.

Quinine Salts.—H. Jarvie & Co., Ltd., Scotia Chemical Works, Coatbridge, Scotland, manufacturers of quinine, give an indication on another page of the ideal conditions under which their products are made. Export inquiries should be made to the company at Wigmore House, 10 Duke Street, London, W.1.

Dispensary Autoclaves. — Designed specially for dispensary and similar uses Pentecon autoclaves are available from the makers Joseph Sankey & Sons, Ltd., Albert Street Works, Bilston, Staffs. They are made of a light aluminium alloy for ease of handling, may be readily heated with a gas ring, and are all thermostatically controlled.

Shopfittings Illustrated.—The shopfitters for Agnew, Nicholson & Co's shop, described and illustrated in the C. & D., Annual Special Issue (C. & D., June 28, pp. 867-71), were Rudduck & Co., Ltd., and the lighting was carried out by Falk, Stadelmann & Co., Ltd. The flooring was of Semastic (6) tiles by Semtex, Ltd.

New Pack and Price.—Ciba Laboratories, Ltd., Horsham, announce that from July 9 their Antistine Privine nebulisers will contain  $\frac{1}{2}$  fl. oz. Antistin-Privine instead of 9 c.c. and advise that while stocks last the 9 c.c. size should be dispensed. That size will not be accepted for credit or exchange. Details of the new prices are given in the Pink Supplement. The new pack is uniform in content and price with the  $\frac{1}{2}$  fl. oz. dropper bottle.

Change of Ownership. — Scott & Bowne. Ltd., 50 Upper Brook Street, London, W.I., having acquired the entire hareholding of R. J. Reuter, Ltd., are

now sole selling agents of "4711" products in Great Britain and Northern Ireland. The manufacture of "4711" products will be carried on as usual at Bedford Avenue, Slough, and goods will be dispatched from there. The travelling staff has been retained in full by Messrs, Scott & Bowne, Ltd., and will continue to call as heretofore.

Price Corrections.—Jonathan Fallow-field, Ltd., London, W.I, point out that an error, too late for a correction, occurs in their advertisement on another page in the price of their Coronet 12/20 camera. Correct price is 43s. 9d.—The price of the Kub electric shaver (manufactured by Chilton Electric Products, Ltd., Hungerford, Berks) was given wrongly in an announcement in the C. & D., June 14, p. 805. The correct price is 4 guineas. The price stated was that of the company's Buk shaver.

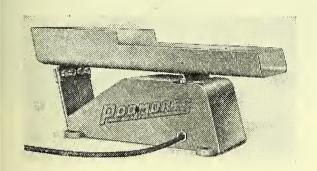
New Medical Specialities. — Sharp & Dohme, Ltd., Hoddesdon, Herts, announce the issue of three new products. Cadrosan (in 100- and 1,000-tablet bottles containing calcium, phosphorus, iron and vitamin D) is for administration to pregnant and lactating women and for the control of and prophylaxis against dental caries. and Stolic Forte tablets (100-tablet bottles) are for the treatment of essential hypertension. They are issued in strengths of 15 and 30 mgm. of mannitol hexanitrate with rutin, 20 mgm., and Delvinal vinbarbital, 30 mgm. Cresatin (in  $\frac{1}{4}$ -oz. tube) contains 80 per cent. metacresyl acetate (Sulzberger) in an ethyl-cellulose base for the treatment of mycotic skin infections.

Diphtheria-Pertussis Vaccine. — Glaxo Laboratories, Ltd., Greenford, are introducing, on July 7, a new combined diphtheria-whooping cough prophylactic under the name suspended diphtheria-pertussis prophylactic Glaxo. The existing 5 c.c. vial of suspended whooping cough vaccine, Glaxo, is discontinued and a pack of 3 x 1 c.c. ampoules is to be introduced. The 10 c.c. pack will be continued. A rebate may be claimed on stocks in the 5 c.c. size held by chemists at close of business on July 5. The 5 c.c. pack of diphtheria-pertussis prophylactic Glaxo and whooping cough (pertussis vaccine) Glaxo (aluminium phosphate adsorbed) will be continued, but other packs are to be discontinued. The name of the combined prophylactic is changed to adsorbed diphtheria-pertussis prophylactic.

#### **MACHINERY NOTES**

Portable Hand Filling Machine. — The Fillmaster machine, made by Mark-o-Print, Ltd., Station Path, Putney Bridge Station, London, S.W.16, is a simple hand-operated model for filling direct from drums into ampoules, bottles or vials. Up to 1,000 containers an hour can be accurately filled.

Vibro-Electric Feeder.—An infinitely variable feed for filling machines is achieved without any mechanical complications by the vibro-electric feeder illustrated, which is made by Podmores (Engin-



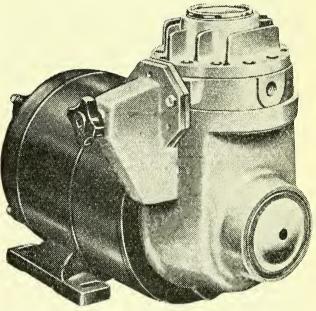
eers), Ltd., Shelton, Stoke-on-Trent, Staffs. The model is one of a range of high-frequency feeders for handling powders and granular material at the rate of a few pounds to ten tons hourly. At a given setting the feed is constant, enabling grinding mills, crushers, packing machines, sifters, mixers, etc., to be used at maximum output The high-frequency vibration is applied directly to the chute by means of a powerful electro-magnetic unit. The feeder handles materials that do not normally flow freely, though a Podmore bin vibrator is then usually advisable to prevent the material arching or sticking in the feed hopper.

Labelling by Machine.—Two recently introduced Newman labellers are the model B fully automatic for bottles and other cylinders of diameter between  $\frac{3}{8}$  in. and  $1\frac{3}{8}$  in. (the label is applied round the entire cylinder or with gap or overlap as desired); and the model C for powder boxes, cartons and other flat surfaces. The makers are D. Trapow & Co., Ltd., Dept. 1, 113 Regent's Park Road, Chalk Farm, London, N.W.1.

Tablet Counting by Machine.—A compact gyratory tablet-counting machine for operating on any suitable work-bench or table is offered under the name Finex by Russell Construction, Ltd., Russell House, Adam Street, London, W.C.2. The machine counts any round tablets or cap-

sules and fills them into containers in any desired multiple. With small tablets, it attains speeds of 2,000 per minute into open containers or 1,500 per minute into bottles or tubes; with 5-grain tablets, speeds of 1,000 and 600-800. Broken or chipped tablets are automatically rejected, and dust or powder is extracted, with the result that only clean and perfectly-formed tablets pass into the container. Change-over from one tablet to another demands the exchange of only two elements: sorting grid and counting slide, each secured by only two hand screws. The overall dimensions are 36 in. high x 18 x 21 in.

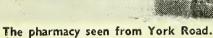
Delivering Pure Air.—Hymatic Engineering Co., Ltd., Redditch, Worcs, have produced a diaphragm-type compressor designed to provide air completely free from oil for raising liquids that must remain uncontaminated, for insecticide and pest-



control spraying, and other purposes. The purity of the air supply from the compressor, which requires no lubrication and little maintenance, makes it suited for sterile rooms and for many special processes in laboratories, where small quantities of low-pressure air are required. An activated carbon filter, through which the air intake is drawn, removing all trace of smoke or odours, provides a further safeguard to the purity of the air supply. The unit is quiet-running and free from vibration. Two models are being produced. Model DP6 consists of the compressor mounted on a ½ h.p. motor while model DP 7 is fitted with a small air receiver in addition. Model DP 6 measures  $12\frac{1}{2}$  in. x  $10\frac{1}{2}$  in. x  $9\frac{1}{2}$  in.

#### AND ASSOCIATIONS CENTURY OF SERVICE







Behind the dispensing screen.

LONDON pharmacy that has just completed a hundred years according to the principle of its motto, "service to the community," is Merrell's Pharmacy, Ltd., 181 York Road, London, N.7. The business is distinguished by many personal associations as well as by its longevity. William Martindale (founder of the Extra Pharmacopæia) was an assistant, and Dr. Westcott (his colleague on the "E.P."), a customer at the shop. Later, Mr. (now Professor) James Small of Belfast University worked there during his studies for the "Major" examination. It may be surmised that among its famous patrons was Ellen Terry, for she lived in a house opposite. An infamous patron, Crippen, the notorious murderer is remembered as a customer by a still - serving member of the staff.

Built as a pharmacy when the district was a select city suburb, the shop, though only a mile from Kings Cross, continues, through one window, to look towards Camden Road, across a private tree-fringed lawn, retaining in that way some of the professional dignity and ease of a past century. Yet, under the director-ship of Mr. J. H. Warnes, the pharmacy today is by no means aloof from the public it serves. Customers know that when they pass between the Corinthian pillars of its doorway they will be greeted by staff who consider nothing too much and nothing too small. The fine state of preservation of the premises and fittings is the result partly of the quality and

weight of the mahogany fittings (almost all of them original) and partly of the care taken of them by their owners.

The public part of the shop has been altered from its original arrangement only by moving the dispensary screen obliquely across the end of the shop, in that way partly hiding an arch that surmounts three steps and leads into the stock-making room and reserve dispensary. That room, originally called the "laboratory" was shut off from the shop by plate glass-panelled doors. From his still used desk in the laboratory, the founder of the business, James Merrell, could view the whole of the shop. The sign "Laboratory" was later moved from the end of the room and placed in front of the archway.

Original shop rounds, black stock bottles and carboys (with the original coloured solutions) and carved mahogany chairs add "atmosphere" to the shop. A brass nameplate beneath the window, announcing that James Merrell was "late of John Bell & Co.," was painted over during the 1939-45 war because the labour was not available to maintain it in its traditional condition.

Change in the tempo and way of life during the lifetime of the business are revealed by the story that James Merrell used to make the errand boy sit by the archway in the shop and warn him when a customer entered, and by an early pre-scription for "Man at Toll Gate" (the toll gate was at the junction of York Road and Camden Road).

James Merrell opened the pharmacy with the help of his uncle (a local builder) and for a time, in the 1880's, there was a branch shop associated with the business. (The second pharmacy was later sold and run under the name Fords, and now, as W. C. Ford (Chemists), Ltd., is at 73 Camden Road, the original premises having been demolished.) A complete set of prescription books still exists.

During the time (1862-64) when Martindale was an assistant at the pharmacy, many prescriptions were entered in the book in his neat writing (see below right).

Among customers of local note was Sir Edmund Barnes, a former mayor of St. Pancras. He is first referred to in the prescription book, in the early 1850s, as an infant. A member of the staff (Mr. W. V. Barnes) now in his forty-sixth year at the pharmacy, remembers Sir Edmund as the last equestrian customer. He used to come to the pharmacy with his groom. Mr. Barnes it is who remembers Crippen: An "inoffensive looking man with little to say. He used to carry a Gladstone bag, and often called to use the Bell' telephone". (The shop's telephone was one of the first in the district.)

Dr. Westcott lived near the Athenæum in Camden Road and often used to ask the staff of the pharmacy by 'phone to send a cab from the cab rank outside the pharmacy. The pharmacy used often to supply Westcott with menthol lozenges

which he took "out of habit."

It is known that Ellen Terry in her later life was friendly with Martindale. Both, in fact, had houses at Winchelsea, Sussex. It has been suggested that she first met him when he was working at Merrell's.

James Merrell died in 1886 and his son,

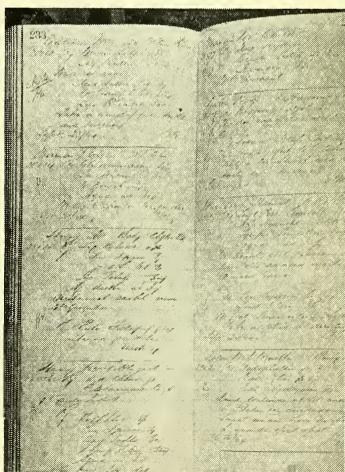
Right: Pages dated September 23 and 24, 1864, containing six entries in W. Martindale's and two in another's writing. Below: Interior of shop.



Arthur James, took over management there (after an apprenticeship at Great Yarmouth and a period at Squire's of Oxford Street). Mr. Warnes went to the pharmacy as an assistant on qualifying from the Westminster School of Pharmacy. He took over the business twenty years ago (when Mr. A. J. Merrell died) and formed the company. The pharmacy continues to make a range of "own lines," in which it has always specialised, but Mr. Warnes, keen to keep abreast of the times, has enlarged the rear of the dispensary to cope with the increased dispensing under the National Health Service. He has also equipped it for aseptic dispensing.

Professor JAMES SMALL, Belfast, writes:—I have very pleasant recollections of Merrell's pharmacy, and still very respectful memories of the dignified proprietor, Mr. Merrell himself, and of his sister, Miss Merrell. As a part-time assistant there in 1911-12, while studying for the "Major," I spent three evenings per week and alternate Sundays in that quiet old-time establishment, and now send my congratulations to the old pharmacy on its centenary. It is good to know that it still functions at the corner of York Road and Camden Road after all that has happened since I attended to its

quieter hours of business.



#### CHECK LIST of LABELS

for your winter requirements

- Cork Top Seals
- Pill Box Discs
- Dispensing Labels
- Powder Packets
- Stock or Special designs for "Own Name" lines

Order NOW from WM. SESSIONS, LTD. YORK



The WALLIS LABORATORY Ltd 58, KING GEORGE'S AVE. WATFORD, HERTS.

WILCOX, JOZEAU & CO., LTD.

#### CACHETS FAIVRE

Dr. Faivre Brand Cachets of

**OXYOUINOTHEINE** 

Supplied in one size only—boxes of 12.

Retail, 4/1½, Including P.T. Wholesale, 30/6 per doz., plus 33½ per cent. P.T.

TELEPHONE:

**≶** ∓

0

Z

TERMINUS

3088

Z

Z

0

Δ

Z

0

THE NEW ANTISEPTIC LIQUID DENTURE CLEANSER
CLEANS PLASTIC DENTURES
INSTANTLY

ODEDENT

1/9 and 2/9 per bottle 11/6 and 18/- per doz.

Direct or through your wholesaler (+\frac{1}{8}tax)
THE ODEDENT CO. 49a High Street, Walton-on-Thames

#### ASPIRINS

HOME AND EXPORT

7½ & 5 grain Packed or Bulk

• HARRINGTONS •

London Office: 2 BERRIDGE Grn., EDGWARE, LONDON

AUSTRALIAN EUCALYPTUS OIL. B.P. (70/75%) (80/85%)

MENTHOL CRYSTALS
(Chinese and Brazilian)

PEPPERMINT OIL (M. Arvensis and M. Piperita)

AGAR AGAR

REFINED CAMPHOR (Powder, Slabs and Tablets)

CITRIC ACID B.P.

TARTARIC ACID B.P.

**ESSENTIAL OILS** 

DRUGS, GUMS AND WAXES

Wm. Chas. BRUMLEU Ltd IMPORT - EXPORT

Established 1854

4-5 HOGARTH COURT, FENCHURCH ST. E.C.3 Tel.: MANsion House 3150—2930

# TABLETS to custome Custome

Modern Plant

Prompt delivery

Quality and accuracy guaranteec

B.P., B.P.C., & N.F. tablets stocked G.O.WOODWARD & CO.LTD.

LARKHALL WORKS NUVHEAD GREEN, LONDON, S.E.15 NEW CROSS 0478

#### TRAGACANTH

SPECIALISTS IN B.P. POWDER
SAMPLES AND PRICES ON REQUEST
FREUDENTHEIL, SMITH & CO., 16 Philpot Lane,
London, E.C.3
MANsion House 1924 & 6600. Estd. 1826

#### INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

Dorma or Dormer face cloths Hynox Fawcett's liquid skin

# CHEMIST AND DRUGGIST

for RETAILER—WHOLESALER—MANUFACTURER
ESTABLISHED 1859

Circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades throughout the World

Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire.

VOL. CLVIII

IULY 5, 1952

No. 3776

Tidying the Poisons Law

THE proposed changes in the Poisons List and Poisons Rules (see p. 9) continue the policy of adapting poisons law requirements to risks endangering public safety.

The alterations to "dinitro" and "organo-phosphorus" compounds anticipate the passing of the Agriculture (Poisonous Substances) Bill giving powers to make measures for the protection of operators using these substances as herbicidal and insecticidal sprays. The effect is to make preparations (other than DNC winter washes) into First Schedule poisons. These may be sold by listed sellers only to persons engaged in agriculture or horticulture. This is aparently a half-way stage to the recommendation (Toxic Chemicals in Agriculture, 1951, p. 15) that it "would be in the interests of the trade, as well as the public," to limit their sale to chemists.

The "topsy-turvy" procedure possible in poisons law is exemplified in the changed application of the Sch. 7(6) "cautionary" notice. This has been one of the labelling characteristics of insecticidal preparations containing dinitrocresol. Under the exemptions for DNC winter washes, it will no longer apply to the products "approved" by the Ministry of Agriculture. Per contra virulent dinitrocompounds (recommended to be labelled as "Deadly Poison") will no longer be "Ex A" as herbicides and must bear the Sch. 7(6) notice (in red as an "S 1" The question will arise as to whether the use of the word "Poison" will contravene Poisons Rule 20.

Amendments to the Poisons List cover

di-nitro and phosphorus compounds within section 9(1) of the proposed Agriculture (Poisonous Substances) Act, 1952. These exemplify the impossibility of escaping from chemical nomenclature in defining substances within the Poisons List and Schedules.

The other amendments represent important details. Thus "quaternary compounds" of alkaloids and of gallamine are listed to ensure complete absence of doubt as to their being compounds other than the parent substance. Whooping cough drops (e.g., "Eumydrin") become an "Ex S1" preparation under the relaxation of "not more than 1 per cent. of atropine methonitrate." Amidopyrine sulphonates (e.g., formerly sold as Novalgin) and their salts join amidopyrine to rectify misconceptions regarding the nature of sodium phenyl-dimethyl-methylamino-pyrazolone-N-methane sulphonate.

The other additions to the Poisons List include well-known proprietaries: tetraethyl thiuram disulphide (Antabuse) and phenylcarbamide (Phenurone, for epilepsy). The provisions regarding five (new) Dangerous Drugs are to be completed by inclusion in the Poisons List and the First Schedule. At present these are "D.D." only, i.e., not "P1" and "S1."

Poisons are used in making fluorescent lamps and these have been added to the General Exemptions of the Third Schedule.

"Ex A" relaxations are in respect of mercurial preservative in toilet and therapeutic preparations (the latter being an extension of thiomersalate in biological products). External applications containing less than 3 per cent. of cinchocaine (e.g., Nupercainal) become "Ex A." Finally animal medicines for internal use may be sold in plain bottles.

# Pricing in the Doldrums

Despite hopeful pronouncements on the progress of prescription pricing, the Minister's recent statement (C. & D., June 28, p. 863) that there has been no change in the average time to complete chemists' payments, bears out chemists' experience. Since last autumn, a month's prescriptions have been priced in less than a month, why then is payment still in the doldrums? The explanation may lie in the handling

of the 1 per cent, sample. This sample serves two purposes: to test the accuracy of averaging, and to ascertain the average dispensing fee received by chemists. The pricing of the sample is, therefore, a necessary part of the process of averaging. The pricing of the sample has not been done month by month (see graph C. & D., February 2, p. 151) but the samples have been saved up for three or four months and then priced together. In the months when a batch of 1 per cent. samples are being priced there is a sharp rise in the time taken for pricing. To get a true picture of the pricing position, each month should be credited with its due proportion of the I per cent. sample. The time taken to price one month's prescriptions then would probably be shown to be a full month. It is frustrating to pricing staffs to work The continuing continually in arrears. stagnation in pricing should spur the Department to give urgent consideration to the whole question of pricing.

# How Many Per Form?

THAT misunderstanding exists on whether the number of prescriptions to be written on one EC10 form is to be limited was shown for example in Question Time in Parliament recently (C. & D., June 28, p. 863). While the Minister then dismissed any suggestion that chemists were agitating for a limitation, he did not make the position clear otherwise. The matter is complicated by the fact that the Ministry of Health themselves advise doctors (a) in the Handbook for General Medical Practitioners and (b) on the covers of the pads of forms EC10 (in extra bold type) to limit prescriptions to two per form, "to assist the work of the pricing offices." On the pad covers doctors are also advised to write prescriptions for elastic hosiery on separate forms, for the same reason. While all concerned would benefit from universal good legibility it would be unfair if cost to the patient depended on handwriting, or length of formula: moreover the payment of an extra shilling on elastic hosiery, if the doctor acts on the Ministry's advice, was probably not intended by Parliament. In the changed circumstances the size of form EC10 probably needs to be reconsidered. It is significant that in Scotland the forms are larger than in England and Wales, to accommodate the different style of prescribing there.

Overseas Trade in May

THE downward trend in United Kingdom exports continued in May, when their value was £225.8 millions against a monthly average of £239.5 millions in the first The effects of the requarter of 1952. strictions on imports taken by many countries, particularly Australia, are being reflected in the statistics. Exports in the group containing chemicals, drugs, dyes, etc., did not suffer to the same extent as some other groups (for example, textiles) did, though at £13,311,717, they were less than in the months of January and March. Drugs, medicines and medical preparations, at £2,827,835, included £559,156 worth of proprietary medicines, and of that total Pakistan took £60,578 worth and Australia spent only £6,681 against £41,790 in the corresponding month of last year. Of the drugs itemised, aspirin, at £86,478; insulin (£43,350), and sulphonamides (£324,991)showed increases over recent months. Those which decreased included quinine, £23,630; ointment and liniments, £94,291 and antipaludics, £78,276. Penicillin in all forms also declined, with salts at £255,855, injectable preparations £122,681, and other preparations (ointments, lozenges, tablets) at £37,543. Antibiotics, other than penicillin, accounted for £207,224. The total value of perfumery toilet preparations exported £471,648, which included £94,370 worth of dentifrices, and £167,890 worth o cosmetics. Toilet soaps at £167,594, were almost equal to the average for the pas three months, as were perfumed spirits, a £59,216. Essential oils, at £79,592 though higher than in March and April were less than for any month since Feb ruary 1951.

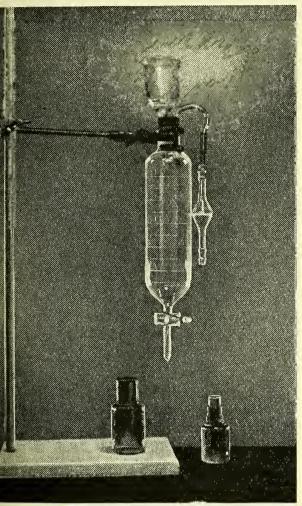
How much of the reduction in import of essential oils (£408,422, agains £793,586 in May 1951) was directly du to the imposition of import licences, is im possible to say, but the volume fell by ove 40 per cent. Imports of drugs, etc. (excluding menthol), totalled £347,376.

# SMALL-SCALE MANUFACTURE OF INJECTIONS

By D. Etchells, B.Sc., Ph.C. (chief pharmacist, Christie Hospital and Holt Radium Institute, Withington, Manchester, 20)

3.—Packaging and Sterilisation

THE packaging of solutions for injection is a very specialised part of the reparation of parenteral solutions. Care tust be taken to ensure that the solution pure, clean, and free from any gross



Simple vaccine-bottle filler

ontamination before being finally sterised. This involves, in particular, ensuring hat the containers are free from all traces f glass, foreign particles, etc.

The use of a sintered glass filter is of reat value in clarifying solutions of mediaments, which are invariably contamiated with foreign particles derived from the processing of the drug. The filters, of the Buchner type, are manufactured in arious sizes. A pore size of about 10 multiput nown as No. 4) should always be used there practicable. This is not a sterilising ter, but produces a bright, clear solution and does in fact remove some orgalisms from the solution. It is not advis-

able to use a filter of a porosity less than three, unless oily solutions are being prepared.

Where an odd multi-dose injection is to be prepared, the solution can be filtered with the use of small filter flasks and filter tubes and then transferred to the final container. The aim should always be to reduce to one stage the transference of the solution to the final container quickly after filtration. Where small batches of multidose containers are to be prepared, some form of combined filtering and filling unit is worth consideration. The use of long connections of latex rubber tubing is to be discouraged, as no matter how carefully the rubber is treated, there is always a likely chance of foreign matter contamination. One device is illustrated opposite which is easily cleaned and is simple in design and manipulation. It can be assembled readily from standard glass equipment. A graduated separating funnel is adapted to take a small filter and tube which admits air through a filter. unit is evacuated and the solution filtered, the vacuum is removed, and the containers filled through the tap under atmospheric As separating funnels of this pressure. type are available in several sizes, two or three sets of equipment can be kept assembled for immediate use, the only necessary change being the replacement of clean sterile filters. Still larger adaptations can be made with litre aspirator bottles, fitted with ground glass taps. Light applications of Dow-Corning stop-cock grease prevents the jamming of the taps and withstands sterilisation by autoclaving.

#### Bulk Packaging

Where bulk packaging of transfusion solutions is undertaken, the simplest system is to use a 10-litre aspirator bottle with tap, the whole adapted in the manner described above. The unfiltered solution in a similar vessel can be stored directly over the filter on a wooden stand having a shelf about 18 in. above the top of the bench. In this way the solution can be passed into the lower tank as required and saves constant stopping to recharge the lower vessel.

The newer detergents are preferable to soap solutions for cleaning the apparatus, but the last traces must be removed. On assembly all apparatus should be rinsed

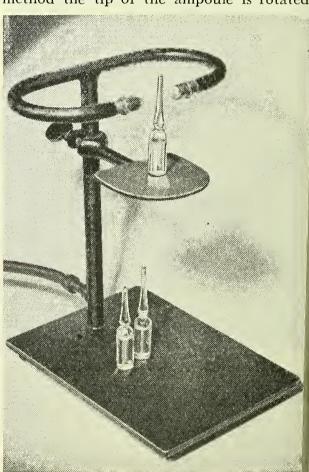
with the filtered vehicle two or three times to ensure complete freedom from contamination. To help in reducing contamination by micro-organisms, it is beneficial to sterilise the apparatus and containers by autoclaving before filling, but this is not necessary when a final heat sterilisation is to be undertaken. The use of finger stalls in handling the bottles, etc., is helpful in reducing the chance of contamination by organisms and particles. A simple routine is always worth maintaining in sterile filling work, and every operator experiments to get the most suitable. Placing the skirted cap on the first finger dur-ing any operation involving the filling of vaccine bottles ensures that it cannot pick any particles by resting on the bench, etc. After filling and replacing the cap all bottles should be carefully examined, and any containing foreign particles should be refilled.

#### Filling Ampoules

In the packaging of parenteral solutions into ampoules, the most frequent troubles are the presence of glass spicules and the contamination of the neck with solution, resulting in charring and imperfect sealing. Simplicity of the filling unit is the key-word. Easy access into the ampoule is essential and this is only achieved by the use of hypodermic needles. most only two or three sizes need be kept for this work, along with needle adaptors which allow for jointing on to a latex rubber connection. Probably the simplest method of filling is with a hypodermic syringe, but it is clumsy and usually there is difficulty in sealing owing to deposits of solution on the neck of the ampoule on withdrawal. Where practicable it is best to have a tap control in preference to the control of the syringe piston. The modification of a 20-mil syringe, fitted with a two-way tap and needle adaptor, ensures a clean break in the flow of the solution. Where a hundred or so ampoules are required, an apparatus of the type illustrated for filling vaccine bottles can be modified. Below the tap a short rubber connection can be fitted, carrying at the other end a needle adaptor and needle. The glass tap is opened and control of the flow regulated by a Mohr clip across the rubber joint. Provided the needle is not dipped into the solution, no deposit will be left inside the ampoule neck on shutting the clip and removing the needle. For smaller output a 1-inch diameter boiling tube can be made into a satisfactory filter by melting and blowing a hole in the bottom, and annealing on to it a short piece of glass tubing. The unit can be used under atmospheric pressure, but more rapid filling will be achieved by the use of low positive pressure supplied from a bellows, similar to that used in the washing apparatus (see C. & D., May 10, p. 653). Using the principles outlined, several handy accurate measuring-and-filling units can be made with a little assistance of a glass blower. This is especially important now that the Addendum to the Pharmacopæia defines the limits of overage in ampoules.

#### Sealing

Heating in a carbon-free bunsen flame can be used for sealing ampoules but it is probably the longest method and cannot be regarded as satisfactory. With the method the tip of the ampoule is rotated



Twin-jet sealing machine

in the flame until the seal is complete and the fine hair line where the glass ha been annealed disappears. A blast burne which may be of the single, double o quadruple type, heats the ampoule necl on all sides. The glass anneals and ne portion is withdrawn. It is claimed tha this type of seal is not as durable as th

third type — the top seal produced by softening the neck and pulling a portion of it away. If oxygen is available, a rapid sealing device can be made from a de Vilbis spray by connecting a gas lead to the tube normally inside the bowl of the spray, and the other to a controlled oxygen lead. A hot flame is produced and the ampoule is sealed merely by rotating at the tip of the cone of the flame, about in. below the top of the neck, the top portion being drawn off. For dispensing purposes the simple twin-jet sealing machine (see illustration, p. 22), supplied by Britton, Malcolm & Co., Ltd., 38 Southwark Bridge Road, London, S.E. 1, s the most efficient and handy in my experience. The vial is placed on the adjustable stand, then the excess top on melting can be removed with forceps. It is not as quick as a blast burner, but it is at least 99 per cent. efficient. It also produces necks of constant length. After filling and pefore sealing, vials should be stored upight in a tray, and for dispensary use a

cut-down ampoule box serves this purpose. On sealing the products can be transferred to a similar box to cool, after which they should be placed in a muslin bag, ready for sterilising.

Sealing in vacuo can be attempted on a small-scale, with the following apparatus: A Y-tube with two short rubber ends free can be connected to a water pump, the ampoules are pushed on to the free ends, and the whole sealed as usual.

Heat sterilisation of solutions has been discussed by many workers and has been summarised by Mr. C. Gunn and colleagues in the C. & D. Refresher Course (see C. & D., January 12, p. 53). The Pharmacopæia lays down rigid standards for the process. Points of importance are that the solution should be maintained at the required temperature for a definite period, and that allowance should be made for the volume of solution in each container. On the completion of any heating process, the containers should be allowed to cool naturally.

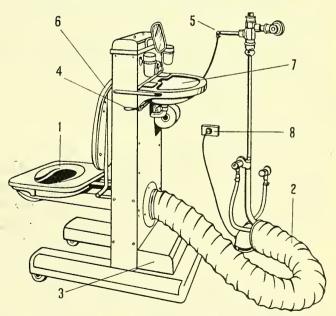
# A MECHANISED BED-PAN

NEWLY marketed in America for use in nospitals is a machine which, it is claimed, liminates the use of a bed-pan, and in addition has many other advantages. The nachine, which is called the Lavoilet, is nade by American Hospital Supply Corporation, Evanston, Illinois, and is mouned on castors so that it may readily be urned round for use by the occupants of djacent beds. An upright fixture built on the base of the machine carries a siderm that bears a toilet pan connected to sluice pipe.

By a simple lever control operated by atient or nurse, the toilet is raised, owered and tilted for maximum comfort hrough the agency of a ½-h.p. motor conealed in the base. In the words of the anufacturer, the toilet "nestles into the nattress." After use the toilet is flushed, overed and pushed aside. Douches and erineal sprays can be administered easily the use of a rubber hose attached to be lavatory faucet. The effluent from the owl is drawn through the sluice pipe to

flexible pipe which joins the sewerage stem of the building by a wall-mounted alve and vacuum breaker. The seat of the toilet is made of a plastic material and removable for cleaning and sterilising tothing is said, however, of how the bowl self may be sterilised. When not in use toilet is closed with a washable uphol-

stered seat. Advantage has been taken of the services piped flexibly to the machine to provide (on the other side) a miniature bathroom for patients. On that side of the machine is fixed a stainless steel washbasin with a hot and cold water tap, an adjustable make-up or shaving mirror, tumblers, soap-holders, etc.



1. Toilet; 2. Flexibile water and waste connection; 3. Motor housing; 4. Motor control; 5. Flush valve with vacuum breaker; 6, Upholstered toilet seat cover; 7. Stainless steel wash basin with hot and cold water faucet; 8. Electrical connection.

# **GUIDE TO NEW MEDICAMENTS**

Information about new proprietary medicaments to be supplied principally on prescription. Editorial recommendation is not implied. Reprints obtainable on application.

#### OVOCYCLIN CREAM

MANUFACTURER: Ciba Laboratories, Ltd., Horsham, Sussex.

Description and Formula: A cream made with a water miscible base and containing 0.5 mgm. cestradiol in each 1 gm.

Indications: Acne vulgaris, pruritus vulvæ, senile vaginitis, kraurosis vulvæ and underdeveloped breasts. Dosage: Local inunction as directed by the doctor.

How Supplied: In 5-gm. tubes. First Issued: April 1952.



#### SULPENIN

Manufacturer: Allen & Hanburys, Ltd., Bethnal Green, London, E.2.

Description and Formula: Tablets containing penicillin, 100,000 units; sulphadizzine, 0.25 gm.; sulphamerazine, 0.25 gm.

Indications: Infection of organisms susceptible to penicillin and sulphonamides.

Dosage: Usual dose: Initially four tablets, subsequently one to two tablets four times a day, before meals.

How Supplied: In tube of ten and bottle of 100. First Issued: May 1952.



#### DIBROMOPROPAMIDINE ISETHIONATE

Brand Name: BRULIDINE

MANUFACTURER: May & Baker, Ltd., Dagenham, Essex.

Indications: For the treatment of surface infections particularly penicillin-resistant staphylococci, Pseudomonas pyocyanea, and Bacillus proteus, and in patients sensitised to other agents. In treatment of burns and scalds.

Dibromopropamidine isethionate

How Supplied: As water-miscible cream containing 0.15 per cent. active ingredien In collapsible tubes. First Issued: 1952.

[Subscribers are advised to make a cross reference in their files of Brulidine to dibrome propamidine isethionate.]



### KEMADRIN

Manufacturer: Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1. Description: dl-1-cycloHexyl-1-phenyl-3-pyrrolidinopropan-1-ol hydrochloride.

INDICATIONS: Parkinsonism. (Post-encephalitic and arterio-sclerotic).

Dosage: 2.5 mgm. three times daily increasing by 2.5 mgm. daily to the maximum tolerated or that which controls symptoms without producing undesirable side-effects. Post-encephalitic patients may require atropine to control excessive salivation. Arterio-sclerotic patients may require less.

CH3-CH3-N HC

How Supplied: In bottles of twenty-five, hundred and five hundred and scored tablets each containing 5 mgm.

Kemadrin

FIRST ISSUED: November 1951.

Notes: Side-effects include dryness of the mouth, mydriasis and disorientation.

# C. & D. REFRESHER COURSE for Pharmacists

Compiled by
COLIN GUNN, B. Pharm., Ph.C.
Assisted by
S. J. CARTER, B. Pharm., Ph.C.
D. R. BRAGG, B.Sc. Hons. (Lond.), B. Pharm., Ph.C.,
and E. J. FITCHETT, Ph.C.

# 17.—ANTICOAGULANTS

"A purpose in liquidity"—

RUPERT BROOKE

THE essentials of the mechanisms involved in the clotting of blood are given diagrammatically below:

Platelets (thrombocytes)

Prothrombin (soluble protein)

Calcium ions — (thromboplastin)

Fibrinogen (soluble protein)

Fibrin (insoluble protein)

In response to injury or in contact with a foreign surface blood cells known as platelets disintegrate with the production of thrombokinase which reacts with prothrombin in the presence of calcium ions to produce thrombin. Interaction then takes place between the thrombin and fibrinogen to produce fibrin which is deposited forming a clot that later contracts and solidifies. Theoretically removal or inactivation of any of the essentials for the reaction will prevent clotting and this is done in practice by the use of the drugs mentioned below.

#### Heparin

It was discovered in 1916 that the substance which prevents intravascular clotting is heparin. It is produced by the liver, is also active in vitro and probably owes its activity to its large electro-negatively charged molecule and not to chemically active groups in its molecule. It can prevent both the conversion of prothrombin to thrombin and the clotting of fibrinogen by thrombin. After intravenous injection it rapidly loses its activity for reasons which are not known and repeated injections are therefore necessary. Its fate has not been decided with certainty. Its action may be prolonged if it is given by intramuscular injection in Pitkin's menstruum (a gelatin glucose, acetic acid medium), or in an emulsion of peanut oil, beeswax, cholesterol and water. Latterly large doses of more concentrated aqueous solution have been given intramuscularly on a considerable scale. Such injections however are

frequently painful.

Heparin has two main uses: the first in the taking of blood for transfusion, when it can be used by adding 2,000 units to the normal saline for injection into which 500 mils of blood is to be collected, or by intravenous injection into the donor five or ten minutes before the blood is removed. The second, and most important use, is in the prevention and treatment of thrombosis, i.e., clotting of blood within the blood vessels. All major surgery carries with it the risk of thrombosis but the use of heparin has to be carefully weighed against the possibility of causing hæmorrhage at the site of operation. In practice treatment is usually not commenced be-fore the second day after operation. Dosage varies but is commonly in the region of 25,000 units intravenously in divided doses. Over-dosage may be counteracted by transfusions of fresh blood or by the injection of basic substances such as protamine sulphate (5-10 mils of a 1 per cent, solution), or toluidine blue which neutralise its charge and destroy its action. Frequent determinations of the blood clotting times must be made. The main disadvantages of heparin are its high cost and its transient action when given intravenously. As heparin is a normal product of the human body it is non-toxic and for this reason it has not been supplanted in therapy by other anticoagulants which have been studied.

#### Dicoumarol

The discovery of dicoumarol is an example of the interesting ways in which new drugs are revealed. It was found to be the substance in spoiled clover hay responsible for a disease which makes cattle liable to bleed. It acts by depressing the

formation of prothrombin by the liver by blocking vitamin K (see chemistry of anticoagulants, below) which is essential for prothrombin production. It is believed that a specific receptor mistakes dicoumarol for vitamin K and therefore prothrombin is no longer produced. Dicoumarol also prevents the occurrence of thrombosis by reducing the tendency of platelets to clump together, and by prolonging the time taken for the formation of the actual clot. has no action in vitro, is much cheaper than heparin and is administered orally. Its action is slower in onset and more prolonged; individual response varies and frequent determinations of the amount of prothrombin in the blood (which should be about 20 per cent. of normal) have to be made. As the onset of its action is delayed it is usual to give 200 to 300 mgm. on the first day of treatment concurrently with heparin, followed by smaller doses on the second day and still smaller doses subsequently, depending on the blood prothrombin level. Blood transfusions and the intravenous injection of large doses of a suitable derivative of vitamin K are called for in over-dosage. It is worth noting that salicylates exert a harmful effect on prothrombin formation.

#### Ethyl Biscoumacetate

Ethyl biscoumacetate, a promising dicoumarol derivative, is to be preferred to its parent in that it acts more rapidly, obviating the need for heparin. It is effective orally, and initially 1,200 mgm. are given followed by 300 to 600 mgm, a

Dosage is controlled by prothrombin estimations. It is more excreted rapidly than dicoumarol.

As well as being used post - operatively all the above drugs are of value for various other of thromtypes bosis.

#### Citrates and Oxalates

Citrates and oxalates owe their anticoagulant properties to their ability to remove calcium ions, Oxalates, because of

their toxicity, are only used for the collection of specimens of blood for examination or preservation, but citrates which are cheap and of low toxicity are of great use in transfusion. Sodium dihydrogen citrate is now the most popular salt because its acid pH allows it to be autoclaved together with dextrose which is frequently added to anticoagulants used for collecting blood for transfusion. Dextrose retards the breakdown of red blood cells but it caramelises when autoclaved in alkaline solution. Therefore the dextrose and normal sodium citrate solutions used for injection of sodium citrate and dextrose B.P. must be autoclaved separately and mixed aseptically before use. Sodium acid citrate is also less likely to cause flaking of the glass of containers than the normal salt. When normal quantities of blood are transfused the citrate has no anticoagulant effect in the recipient's blood because of the dilution which quickly occurs.

#### Dextran Sulphate

Dextran, which is used as a plasma substitute, will be discussed in the next article but its sulphate is also interesting because it has been found to have anticoagulant properties. Large molecules are toxic but if the molecular weight is in the region of 8,000 no toxicity is exhibited. Its action is similar to that of heparin in inhibiting the action of thrombin.

# Chemistry of the Anticoagulants

Heparin has a complex polysaccharide structure which on hydrolysis yields N

NH.CO.CH<sub>3</sub>

acetyl glucosamine, glucuronic acid and sulphuric acid. The way these units are arranged in the polysaccharide is not fully known but it is apparent that the sulphuric acid is esterified with the hydroxyl groups of the sugar units and that the glucosamine and glucuronic acid are combined in disaccharide units which in turn are linked together in chains.

This structure is one possible arrangement of the component units and represents the disaccharide repeating itself n times in the polysaccharide molecule. Although there are four hydroxyl groups in each disaccharide unit available for esterification with sulphuric acid the most active preparation contains only three such esterified groups as shown in the formula (p. 26). The value of n is unknown.

Although heparin has been obtained as an apparently pure crystalline compound in the form of its barium salt the biological potency of such preparations varies considerably and it is certain that heparin even in this highly purified form is a mixture of closely related polysaccharides. Due to its variable composition biological assay is the only reliable method of assessing its potency. Heparin is official as the sodium salt, in which form it is a white powder when highly purified. It is soluble in water and stable in neutral or alkaline solution, particularly within the pH range 7.0 to 8.5, but acid solutions slowly lose activity on heating. Injections are officially sterilised by filtration but there is evidence that autoclaving causes very little loss at the above ph range.

Dicoumarol has the formula:

and is given the name 3:31 methylenebis-4 hydroxy coumarin. The term bis indicates that the methylene group is linked to two hydroxy-coumarin molecules. The rest of the name is self explanatory. Dicoumarol is quite cheaply synthesised from salicylic acid and is a white crystalline powder which is only slightly soluble in water but freely soluble in caustic soda solution. Its relationship to vitamin K is in-

teresting. Vitamin K the structure shown alongside. and if one ignores the phytyl side chain  $(C_{20}H_{39})$  there is an similarity obvious between this strucand a half ture molecule of dicoumarol.

The structure of ethyl biscoumacetate

If this compound is regarded as a substituted ethyl acetate the systematic name ethyl 4:4<sup>1</sup> dihydroxy-coumarinyl 3:3<sup>1</sup> acetate becomes obvious.

#### **REVISION QUESTIONS**

1. How may overdosage of heparin be counteracted?

2. What is the advantage of using sodium dihydrogen citrate instead of normal sodium citrate in transfusion?

# LOCAL N.H.S. STATISTICS

IN GLAMORGAN, in the first four months of 1951, the number of prescriptions rose to 1,914,860 (value £323,813) against 1,628,626 (£239,323) for the same period of 1950.

In Halifax in 1951-52 there were thirty-three pharmacies and seven shops supplying appliances only. Chemists' accounts were nine months in arrears. Pharmaceutical expenditure went up from £70,958 to £95,782. Since the start of the drug-testing scheme only one case in fifty-nine has had to be referred for investigation.

In Huddersfield, from July 1951 to March 1952, payments to chemists amounted to £92,838. All prescriptions dispensed under the testing scheme were satisfactory.

In Merioneth total expenditure for pharmaceutical services during the year ended March 31 amounted to £59,609. The total number of prescriptions was 246,625.

# TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

JULY 2, London, THERE have been no signs yet of any revival in trade and during the past week business on home-trade account was confined to a limited range of commodities. For the first time in many weeks no price occurred in Pharmaceutical changes

and Fine Chemicals.

Inquiry for Botanical Drugs lacked interest though there was a certain amount business done in f.a.q. wet-crop SENNA PODS mainly for Continental destinations. Cardamoms (Aleppy greens) are now short at origin and quotations for spot material have advanced by sixpence per lb. Chinese Menthol on the spot was firmer because origin were not offering to supply for forward delivery. The GUMS ACACIA and KARAYA were fractionally easier at source but Tragacanth was unaltered at previous levels. In Waxes, BEES' remained steady but CARNAUBA on the spot, commanded 65s. per cwt. more than in the previous week for the prime yellow material as Brazil were not offering. The fatty-grey variety also showed a firmer tendency. Although there was little demand for Zanzibar CLOVES, there were few shipment offers at the advanced price of 9s. per lb. Firmer conditions ruled in the SHELLAC market following reports of American buying in Calcutta. Present quotations for new-crop Morocco CORIANDER failed to attract buyers who anticipate further lower prices. business has been reported in new-crop ERGOT at present quotations.

The hot weather of the past week caused an increased consumption of cordials and brought in its train a sudden demand for certain oils. Otherwise most ESSENTIAL

OILS were quiet.

The Ministry of Food state that from July 1 until further notice the buying price of home-grown linseed of 90 per cent. purity will be the minimum (i.e., £65 per ton, ex farm), with appropriate adjustments for seed of greater or less purity.

U.S. Drug and Chemical Report

NEW YORK, JULY 1 AMPLE supplies of key chemicals continue to feature the American market. Output of Oxalic acid has been halted at some plants in an effort to check the overflow. Firmer metal prices brought quotations for dry Red Lead up to  $18\frac{3}{4}$  cents per lb., a half-cent gain, and Litharge to  $17\frac{3}{4}$  cents, up one-quarter cent. With almost no crude GLYCERIN offered in the market, prices for both crude and refined continue firm. MENTHOL prices have held fairly steady in spite of low seasonal demand. Weakness

was evident in several Botanical Drugs, with prices per lb. lowered for GUM ACACIA, amber sorts, to 13½ cents (down one-half cent); ERGOT, \$5.75 (10 cents); SENEGA \$1.40 (5 cents); CASCARA SAGRADA 30 cents, (2 cents); TINNEVELLY SENNA LEAVES, No. 1, 20 cents, (2 cents). Among ESSENTIAL OILS, CLOVE remains scarce while the U.S.P. grade of PEPPERMINT shows a softer undertone. Patchouli at \$7.15 is down 10 cents.

#### Pharmaceutical Chemicals

ACETANILIDE.—1-cwt. lots are 2s. 11d. per lb. for crystals and 3s. per lb. for powder.

AMIDOL.—In 14-lb. lots the price is 19s.

per lb.; 7-lb., 19s. 6d.

Ammonium carbonate. — B.P. lump is £71 5s. per ton; powder, £74 5s. Bicarb-ONATE is £47 15s. per ton, all delivered free U.K. in non-returnable packages.

AMMONIUM CHLORIDE, B.P. -- Makers

quote 1-cwt. lots at  $11\frac{1}{2}$ d. per lb.

AMPHETAMINE.—Base is from 65s. to 68s., and SULPHATE from 56s. to 59s. per lb., as to quantity. d-Amphetamine is from 650s. to 700s. per kilo.

ASPIRIN. — Prices are as follows:—5-cwt. lots, 4s. 10d. per lb.; 1-cwt. 4s.  $10\frac{1}{2}$ d.; 28-lb. and under 1-cwt., fron 5s. 8d. to 6s. 1d., according to pack.

— Rates ATROPINE.  $\operatorname{per}$ ALKALOID, 58s. 9d.; 4-oz., 58s. 3d.; 25-oz. 57s. 9d. Sulphate, 48s. 9d.; 4-oz., 48s. 3d. 25-oz., 47s. 9d. METHYL NITRATE in 4-oz lots is 78s. 6d. and Methyl bromide 76s. 6d. per oz.

Barium sulphate.—1-cwt. lots of B.I (x-ray) are 1s. 5d. per lb. Schedule rates per lb. (containers in brackets) fo quantities between 28-lb. and 1-cwt. are a follows:—1s. 11d. (28-lb.); 2s.  $0\frac{1}{2}$ 6 (14-lb.); 2s. 1d. (7-lb.); 2s. 4d. (1-lb.).

Benzene. — B.P.C. grade is quoted a 5s. 7d. per gall.; thiophene-free, 7s. 10½ per gall. in 50-gall. barrels. smalls, 1s. 100 per lb.

Benzoic acid.—1-cwt. lots are 3s.  $0\frac{1}{2}$ per lb. The Sodium salt is 2s.  $10\frac{1}{2}$ per lb. in 1-cwt. lots.

Benzocaine—28-lb, lots and upware are 27s. 6d. per lb.

BISMUTH SALTS .- The following are the prices (per lb.) in largest bulk packages :-

		I-cwt.	28-lb.	7-lb.	
SALICYLATE SUBGALLATE	•••	s. d. 28 2 24 5 23 6 24 5	s. d. 28 5 24 8 23 9 24 8	s. d. 32 10 28 6 27 6 28 6	

Borax.—Prices for B.P. grade, for quantities of 1 ton and upwards are as follows:—Granular, £48 10s.; crystals, £51; powder, £52; extra-fine powder, £53 per ton. Prices of commercial range from £39 10s. to £44 per ton, as to type, and dehydrated borax is now £60 10s. per ton. In 1-cwt. bags; carriage paid in Great Britain. Surcharges for small quantities as for boric acid.

Boric acid.—Prices for B.P. grade in quantities of 1 ton and upwards are as follows:—Granular, £81; crystal, £88; powder, £85 10s.; extra-fine powder, £87 10s. per ton. In 1-cwt. bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 5s.

CALCIUM CHLORIDE. — B.P. crystals are 1s. 0½d. per lb. in 1-cwt. lots and exsicca-

ted,  $9\frac{1}{2}$ d.

CALCIUM SUCCINATE. — Quotations are from 10s. 6d. to 12s. 6d. per lb., as to quantity. SUCCINIC ACID is from 10s. 3d. to 12s. 3d. per lb.

CARMINE.—Prices are from 75s. to 80s.

per lb., according to quantity.

CHALK.—In minimum 1-ton lots powder is £21 and cones, £22 10s. per ton.

CHLORBUTOL.—28-lb. lots are at the rate of 13s. 6d. per lb.

CHLOROXYLENOL.—B.P. quality is quoted at 6s. 9d. per lb. for 1-cwt. lots.

CITRIC ACID.—British makers quote 218s. per cwt. for 1-4-cwt. lots and 213s. per cwt. for 5-cwt. Quotations are now net.

CREAM OF TARTAR.—Rates for the home trade are as follows:—10-ton lots. 230s. per cwt.; 1-ton, 231s.; 10-cwt., 232s. Small quantities from 233s. to 235s. per cwt., delivered.

CREOSOTE.—B.P. quality, ex beechwood, is quoted at from 6s. 9d. to 7s. 6d. per lb.

Cresol.—Price of B.P. quality from distillers is 7s. 9d. per gall. in 5-gall. lots.

DIPHENAN.—Prices range from 58s. to 67s. per lb., according to quantity.

GALLIC ACID.—B.P.C. is 8s. 7d. per lb. for 1-cwt. lots.

Hydroquinone. — Quotations for 1-cwt. lots are 11s. per lb. For smaller quantities viz., 28-lb., 11s. 3d.; 14-lb., 12s.; 7-lb., 12s. 6d.

Hyoscine hydrobromide. — Quotations are from 90s. to 95s. per oz., according to quantity, for British material.

OLEIC ACID.—Prices for B.P. are from 1s. 7d. to 2s. per lb. and technical from 1s. 5d. to 1s. 10d. per lb.

POTASSIUM ACETATE.—B.P. is 2s. 8d. per b. in 1-cwt, lots.

POTASSIUM BICARBONATE.—In 1-cwt. lots B.P. powder is 1s. 3½d. per lb.

Potassium permanganate. — Rates for material packed in 1-cwt. drums are as follows:—

QUANTITY	B.P., per lb.	TECHNICAL, per cwt.
ı cwt.	18. 7½d.	1725.
3 cwt.	1s. 7d.	168s.
5 cwt.	18. $6\frac{1}{2}d$	163s.
ı ton	1s. 6d.	158s. 6d.
5 tons up	18. $5^{\frac{1}{2}}$ d.	1548.

In 5-cwt. drums prices are 1s. per cwt. less than above. Terms: Net, delivered nearest railway station in Great Britain; drums charged extra and returnable.

PILOCARPINE.—In 25-oz. lots prices are: Alkaloid, 56s. per oz.; Hydrochloride, 46s. per oz.; Nitrate, 42s. per oz.

Salicylic acid.—Prices are: 5-cwt. lots in bulk, 2s.  $11\frac{1}{2}$ d, per lb.; 1-cwt., 3s.; 56-lb., 3s. 7d. Scheduled rates for quantities of 28-lb. and under 1-cwt. are from 3s. 7d. to 4s. as to pack.

SANTONIN.—Scarce. The following nominal prices apply in the home market, including Eire:—5-kilo lots, £96 per kilo; 2-4-kilo lots, £97 10s.; 1-kilo, £99; 500 gm., £100 10s.; 250 gm., £102; 100 gm., £103 10s.; smaller quantities, £105.

SILVER SALTS.—NITRATE: In 1,000-oz. lots is 3s. 11½d. per oz.; Protein unchanged at from 36s. 3d. to 42s. 9d. and for VITELLIN from 68s. 6d. to 76s. 6d. per lb., as to quantity.

SODIUM CHLORIDE. — Re-crystallised is 20s. per cwt.

SODIUM SALICYLATE.—Rates are: 1-ton lots in bulk, 3s. 5d. per lb.; 5 - cwt., 3s.  $5\frac{1}{2}$ d.; 1-cwt., 3s. 6d. Scheduled rates in the home market for 28-lb. and under 1-cwt. are from 4s. 1d. to 4s. 6d. per lb., as to pack.

SODIUM SULPHIDE.—Prices are as follows:—ANHYDROUS powder, in 4-ton lots, £58 15s, per ton, packed in 1-cwt. free drums. Pea CRYSTALS (photographic) in 4-ton lots, £36 17s, 6d, per ton in free kegs or £28 12s, 6d, per ton in 1-cwt. bags. Surcharges: 2 tons, 10s.; 1 ton, £1; 10 cwt., £2; 5 cwt., £3; 1 cwt., £6 more than above rates.

STRYCHNINE.—Current rates per oz. are given in the following table:—

Salt	Under 25 oz.	25 oz 99 oz.	100 oz 499 oz.	500 oz. and over
ALKALOID, B.P.C.	s. d.	s. d.	$\begin{array}{cccc} s. & d. \\ 7 & 6\frac{1}{2} \\ 6 & 4\frac{1}{2} \end{array}$	s. d:
BISULPHATE	7 10	7 8		7 5
HYDROCHLORIDE,	6 8	6 6		6 3
B.P	7 5	7 3	$ \begin{array}{cccc} 7 & 1\frac{1}{2} \\ 7 & 1\frac{1}{2} \\ 8 & 2\frac{1}{2} \\ 6 & 7\frac{1}{2} \end{array} $	7 0
Nitrate, B.P.C	7 5	7 3		7 0
Phosphate	8 6	8 4		8 1
Sulphate, B.P.C.	6 11	6 9		6 6

Special discounts for large buyers.

THEOPHYLLINE. — ALKALOID is 47s. 6d. per lb., and AMINOPHYLLINE (THEOPHYLLINE WITH ETHYLENEDIAMINE), 45s. per lb., both in 1-cwt. lots.

#### Crude Drugs

AGAR.—Firm. Kobé No. 1 on the spot is 14s. 9d. per lb.

ACONITE.—Spanish napellus is 3s. 9d. per lb., duty paid, ex wharf.

Aloes.—Prime Cape is about 178s, per cwt., c.i.f.; spot is unchanged at 195s. Curação is 390s. per cwt., on the spot.

ASAFŒTIDA.—Persian block is £18 10s.

per cwt., duty paid.

Balsams.—Canada: Small quantities on the spot are 29s. per lb.; forward, 28s. per lb., c.i.f., July shipment. Copaiba: Para, soluble is offered on the spot at 17s. 6d. per lb. Peru is 14s. 6d. per lb., duty paid, and 12s. 9d., c.i.f. Tolu on the spot is now 32s. 6d. per lb., and for shipment, 31s., c.i.f., for the genuine as imported.

CARDAMOMS. — Aleppy greens for shipment are 15s. 6d. per lb., c.i.f., and spot, 17s.

Cascara sagrada.—American bark, 1951 peel, is from 290s. per cwt., duty paid. New-crop. 220s., c.i.f.

CLOVES.—Firm. Quotations for Zanzibar are nominal at 9s. per lb. for both spot and forward (c.i.f.).

COCHINEAL.—Black is from 7s. 3d. to 7s. 9d. per lb., as to quality, and silver grey, 6s. 3d. to 7s., spot.

Colocynth.—Pulp on the spot is 1s. 9d. per lb., duty paid.

ERGOT.—Portuguese is 27s. 6d. per lb. spot, and new-crop for July-August shipment is 14s. per lb., c.i.f.

GINGER.—African on the spot is 115s. per cwt., and 105s., c.i.f., July - August shipment of new-crop. Spot quotations for Jamaican are from 190s. to 220s. per cwt., as to quality.

Gum acacia. — Kordofan cleaned sorts on the spot are 105s. per cwt.; shipment, 93s., c.i.f., buyer's licence.

Karaya.—Easier. No. 1 gum on the spot is about 230s. per cwt.; No. 2, 165s.

Liquorice. — Anatolian natural whole root on spot in London is quoted at 52s. 6d. per cwt.; Syrian, natural, is 42s. 6d. Turkish block juice quotations are from 180s. upwards, according to holder, duty paid. Turkish stick is 240s. per cwt., duty paid; Italian stick, 475s. per cwt., duty paid.

Menthol.—Chinese has advanced to 56s. per lb., duty paid., and Brazilian is unchanged at 45s., duty paid. Forward offers of Brazilian are about 40s. per lb., c.i.f., prompt shipment.

Papain.—East African, No. 1, is 39s. per lb., c.i.f., and Ceylon sun - dried, 32s. 6d., c.i.f.

SAFFRON. — Mancha superior is offered at 175s. per lb., on the spot.

Seeds.—Anise.—Turkish is 132s. 6d. per cwt., in bond, and 150s., duty paid. Caraway. — Dutch is still offering at 87s. 6d., duty paid, in London, Coriander.—Market dull. Morocco is quoted at 57s. 6d. per cwt., duty paid. Argentine splits, nominal, 57s. 6d., duty paid. Shipment: Morocco, new-crop is quoted at 40s., c.i.f., London; no business reported. Celery. — Indian, owing to several consignments, the market on spot has eased from 1s. 10d. to 1s. 9d. per lb. Cumin.—Spot: All the Malta has been cleared. Cyprus is 190s. per cwt.; Morocco, 180s. in bond; Indian, from 180s. to 185s. Dill.—Indian offering at 80s. per cwt., spot London, Fennel.—Spot: Indian, 200s. per cwt.; French, 175s., in bond. Fenugreek.—Spot, London or Liverpool, Morocco quoted at 39s. per cwt., duty paid, with no buyers. Mustard.—English from 80s. to 110s. per cwt., according to quality.

Senega.—Spot supplies are 14s. per lb. nominal. July-August shipment offers ar 10s. 6d. per lb., c.i.f., for new-crop.

Senna.—Forward offers of *Tinnevell* new wet-crop Leaves are as follows:—Prime No. 1,  $10\frac{1}{2}$ d. per lb.; No. 2,  $9\frac{1}{2}$ d. No. 3, 8d.; f.a.q., 7d.; all c.i.f. Pods hand-picked are from 1s. 5d. to 2s. pelb., c.i.f., as to quality, and f.a.q.,  $10\frac{3}{4}$ d c.i.f. *Alexandria* best hand-picked pods at 6s. 6d. per lb., and medium. 4s. 6d. manufacturing, 1s. 9d., all on the spo Leaves are 11d., and siftings, 10d. per lt spot.

Shellac.—Firmer. Spot quotations are F.O.T.N., pure, 195s.; F.O. Standard N. 1, 215s.; fine orange, 230s. to 290s. pecwt., ex-London warehouse.

STROPHANTHUS.—Kombé, 100 per cer is quoted at 18s. per lb. on the spot. Grat shipment prices are nominal at 33s.. c.i.f spot material, 34s. per lb.

TURMERIC.—Madras finger on the sp is 62s, per cwt., nominal. Forward offe are 50s., c.i.f.

Valerian.—Steady. Indian is offered 140s. per cwt., spot, and Belgian at 21s

Vanillin.—Rates (per lb.) are as f lows:—5-cwt. lots, 40s.; 1-cwt., 40s. 36 56-lb., 40s. 6d.; smaller quantities, 40s.

Waxes.—Bees'.—Dar-es-Salaam on t spot is 430s, per cwt.; shipment, Ju August, 380s., August-September, 375 c.i.f., nominal. Benguela on the spot 400s. per cwt., in bond; shipment, 390 c.i.f. Candelilla.—Spot supplies are fered at 645s, per cwt.; no shipment offe Carnauba.—Prime yellow, spot, 1,085s. I cwt. No offers for shipment. Fatty grespot, 875s. per cwt. Montan. — Reibe crude on the spot is 140s. per cwt. Ou curi.—Spot 0.5 per cent. impurities, 70 per cwt.

WITCH HAZEL.—Leaves on the spot equoted at 2s. per lb.

#### **Essential Oils**

Almond. — English-expressed is from 6s. 6d. per lb.

Amber.—Rectified on the spot is quoted at from 1s. 6d. per lb.

ANISE.—Spot supplies are from 8s. 9d. per lb., according to quantity.

BERGAMOT. — Nominal spot value is from 100s, to 105s, per lb.

CAMPHOR, WHITE. — Chinese is 4s. 6d. per lb., on the spot.

Cananga.—Supplies to come forward are nuoted at from 60s, per lb., c.i.f.

CARAWAY OIL. — English-distilled is fered at 45s.; imported oils are from 30s. per lb., for spot.

CARDAMOM. — English-distilled is from 500s, per lb. for spot material, and imported, 400s, per lb.

Cassia.—Spot supplies are offered from 1s. per lb.

CEDARWOOD.—Spot quotations for Kenya re from 4s. 6d. per lb.

CHENOPODIUM. — 1-cwt. lots are 75s. er lb.

CINNAMON.—B.P. oil on the spot is quoed at from 65s. to 70s. per lb. English ark oil is offered at 22s. 6d. per oz., beylon leaf, 10s. 3d. per lb., spot, for 5-wt. lots.

CITRONELLA. — Spot prices for original rums are: Ceylon, 4s. 5d. per lb.; Fornosa, 4s. 6d., in bond; Java, 5s., in bond. orward: Ceylon, 4s.; Formosa, 3s. 11d., nd Java, 4s. 3d., all c.i.f., July-August nipment.

FENNEL. — Spanish sweet on the spot quoted at from 9s. to 12s. 9d. per lb.

GERANIUM. — Bourbon on the spot is 5s. per lb.

GINGER. — English-distilled oil is from 20s. to 150s. per lb., as to grade. Imorted oils are available at from 80s. per

JUNIPER BERRY. — Imported oils are fered at 22s, 6d, per lb., duty paid. nglish-distilled is offered at 75s, to 95s, er lb., as to seller and grade.

LIME.—Limited supplies of West Indian stilled are about 67s, 6d. per lb., on the lot; for shipment, 65s., c.i.f.

Nutmeg.—English-distilled oil is about so per lb. Imported oil (B.P.) is offered 28s. 6d. per lb., duty paid for drum ts.

PEPPERMINT. — Chinese arvensis oil on le spot is from 34s. per lb. for 5-case lots; razilian, 20s. per lb., in drums; Italian Mitcham "type, 60s.

SPEARMINT.—Firm. U.S.P. is scarce on e spot at 73s. per lb., nominal.

VETIVERT.—Bourbon in original drums 155s. per lb., spot.

### **WORLD TRADE**

Zanzibar Clove Crop. — The market review issued by the Zanzibar Clove Growers' Association for the quarter ended March 31, states that supplies of cloves totalled 4,554,504 lbs. (130,129 frasilas); the greater part (3,768,492 lbs.) was the produce of Pemba. For the nine months ended March 31, the crop totalled 10.7 million lb. against 42 million lb. in the corresponding period of the previous year. High prices were maintained in the local market, at one time 591s. per 100 lb., ex duty, was paid. Towards the end of March they were lower at from 550s. to 555s. Clove stem oil, totalling 82,846 lb. was shipped during the quarter and of this the United Kingdom took 81,864 lb.

IG Farben Successor Companies.— The Allied High Commission in Germany has published the regulation which lists twelve successor companies and their subsidiaries of the former IG Farben Chemical Combine. The companies are the Agfa Camerawerk AG, Munich; Badische Anilin und Sodafabrik AG, Ludwigshafen; Casella Farbwerke Mainkur AGN, Frankfurt; Chemische Werke Huels, Marl, Duesseldorf; Farbenfabriken Bayer, Leverkusen; (formerly Farbwerke Hoechst Meister, Lucius und Bruening), Frankfurt; Titangesellschaft, Leverkusen; Duisburger Kup-ferhuette, Duisburg; Kalle und Co., Wiesbaden; Dr. Alexander Wacker Gesellschaft Fuer Elektrotechnische Industrie, Munich; Dynamit AG, Troisdorf, near Bonn; and Wasag Chemie AG, Sythen/ Ruhr. Under the regulation, the tripartite IG Farben Control Group is authorised to cause the transfer of former IG Farben assets to the successor companies and their subsidiaries. The West German Chancellor (Herr Adenauer) stated that the West German Government would see to it that the chemical combine would not form again and that none of the successor companies would merge before December 31, 1955. The main successor companies (Farbenfabriken Bayer AG. Badische Anilin-und-Sodafabrik AG and the Farbwerke Hoechst) would not be permitted to merge. Trading in I.G. Farben shares was permitted from June 26. They will eventually be exchanged for shares of the new companies.

# Answers to Revision Questions

1. By the use of protamine sulphate or toluidine blue.

2. It can be autoclaved with dextrose without causing caramelisation.

## TRADE MARKS

From the "Trade Marks Journal," June 11

For all goods (5).

DOLQUAM, 706,512, by J. Evershed & Son, Ltd., Shoreham-by-Sea. DIPSOR, 706,772, by Genatosan, Ltd., Ipswich.

For non-medicated toilet paper (16).

NOYZONE, B705,321, by Charles John Noys, London, E.13.

#### From the "Trade Marks Journal," June 18.

For chemical products used in the manufacture of perfumes, perfumery products, soaps and cosmetics (1)

THIBEXINE, 699,289, by Firmenich & Co.,

Geneva, Switzerland.

For industrial chemicals (1)

ZIRFLUX, 705,248, by Magnesium Elektron, Ltd., Clifton Junction.

For non-medicated toilet preparations (3)

CALIGARI, B691,898, by Angelo Callegari, Paris, France. GOLDEN AGE, 706,279, by J. & E. Atkinson, Ltd., London, W.1.

For lipstick and hand creams (3)

GUARDEE, 704,613, by Lentheric, Ltd., London, W.1.

For pharmaceutical preparations (5)

METAMUCIL, 703,236, by G. D. Searle & Co., Illinois, U.S.A. GLYMAX, 704,820, by Macleans, Ltd., Brentford. PULVROTA, 705,483, by Frank Stanley Claude Andrews, Great Yarmouth. PROBACTOL, 706,511, by C. J. Hewlett & Son, Ltd., London, E.C.2. CORACTHYL, 706,707, by E. R. Squibb & Sons, Ltd., London, W.1.

For all goods (5)

VETADEXOLIN, 703,447, by Glaxo Laboratories, Ltd., Greenford. BRULERGAN, 706,084, by May & Baker, Ltd., Dagenham.

# PRINT AND PUBLICITY

Weather "Wisdom."—1952 holiday weather forecasts by the Bartlett brothers are incorporated in a map showcard advertising Wisdom tooth-brushes issued by Addis, Ltd., Hertford.

Four-language Price List.—A. G. Hersom, Canbury Park Road, Kingston-on-Thames, Surrey, have issued a new price list, No. 7, of perfumery compounds and essential oils, printed in English, French, Portuguese and Spanish, and available free on request.

Dispensers' Aid to the N.F. 1952.—Published by and available free from Hough, Hoseason & Co., Ltd., Atlas Laboratories, Levenshulme, Manchester, 19 as an aid to dispensers is a 20-p. brochure on the new National Formulary. Deletions, additions and modifications are grouped together for each alphabetically arranged subsection of the Formulary.

Advertising Campaigns.—During the summer months, Goya, Ltd., 161 New Bond Street, London, W.I, are placing more than half their advertising appropriations for Corvette toilet preparations (for men) in women's magazines, a survey among retailers having shown that many women buy shaving and toilet preparations for the menfolk.

N.F. and B.P.C. Changes.—Thornton & Ross Ltd., Linthwaite, Huddersfield, Yorks, offer to send to any chemist a copy of each of two leaf lets, the first indicating changes brought about by the Supplement to the British Pharmaceutica Codex, 1952, and National Formulary, and the second designed to solve N.F., 1952, eye lotion problems.

Sales Campaign.—The Anglo-French Drug Co Ltd., Guilford Street, London, W.C.1, are about to commence an intensive sales campaign among medical practitioners for Iodobesin.

Medical Leaflets.—Leaflets, folders and bookle obtainable from manufacturers include those listebelow:—

ALLEN & HANBURYS, LTD., Bethnal Green, Loi don, E.2: "Hyperduric Adrenaline" (card "Euvalerol M" (4-p. leaflet).

©IBA LABORATORIES, LTD., Horsham, Sussex "Priscol" (16-p. booklet).

# **APPLIANCES IN 1759**

ECHOES OF THE PAST

From "The London Chronicle or Universal Evening Post," from Thursday, November 8, to Saturday, November 10, 175! "To Messrs. Woodward and Hunt,

SURGEONS, at the King's Arms, nec

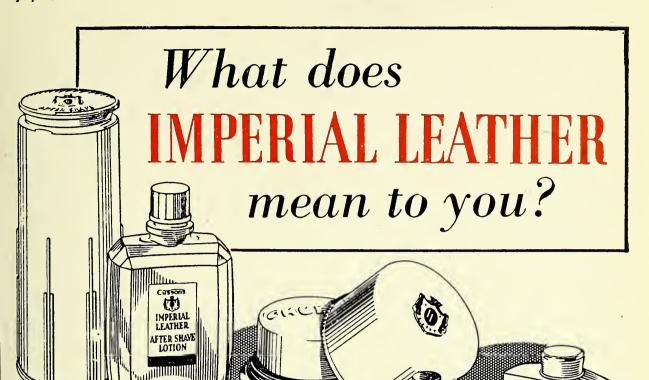
Half-Moon-Street, Piccadilly.

Gentlemen, WE the Minister, Churchwardens, ar Overseers, of the Parish of North Mimbeing assured by a Surgeon of Credit ar Reputation in the Neighbourhood, th you have cured Thomas Beck, Son Thomas Beck, of this Parish, of a dange ous Rupture, take this Method of making the same Public for the Benefit of othe afflicted with the like Disorder, that the may know where to apply for Relief; and at the same Time return you our hear Thanks for the Cure abovementioned The Truth of which we are ready to cettify to any enquiring Person. As withe our Hands,

Andrew Webster, Vicar, W. Halsey and J. Hawkes,

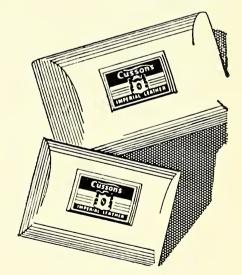
W. Harman and E. Lawrence,

Merchants and Captains of Ships me be supplied with Bandages and Medicing to carry abroad; or any Person afflict with a Rupture may receive equal Advatage, either at Home or in any part the World, by sending the exact Measuround the Waist, also the Size of the Ruture, whether it is in the Groin, Scrott or Navel, and on which Side it is situate also whether Man, Woman, or Child; this Method of ours, a great many har already received perfect Cures.



A fascinating perfume? A standard of quality noticeably better than the rest? A full range of toilet luxuries that find instant acceptance from your customers? The usual answer is all of these things. For the national advertising which has created so great a demand has done so mainly because it has directed attention to products of exceptional merit.





CUSSONS SONS & CO. LTD, 84 BROOK STREET, GROSVENOR SQUARE, LONDON W1

MANUFACTURING CHEMISTS



FOUNDED IN THE YEAR 1839

The COX organisation undertakes LARGE-SCALE SCIENTIFIC

# PILL&TABLET

**PRODUCTION** 

PACKED OR IN BULK

PRIVATE FORMULÆ AND SPECIAL INDIVIDUAL PACKS A SPECIALITY

your enquiries, large or small are welcome

CONTRACTORS TO H.M. GOVERNMENT

arthur H. Cox & CO. LTD.

BRIGHTON. 7. SUSSEX